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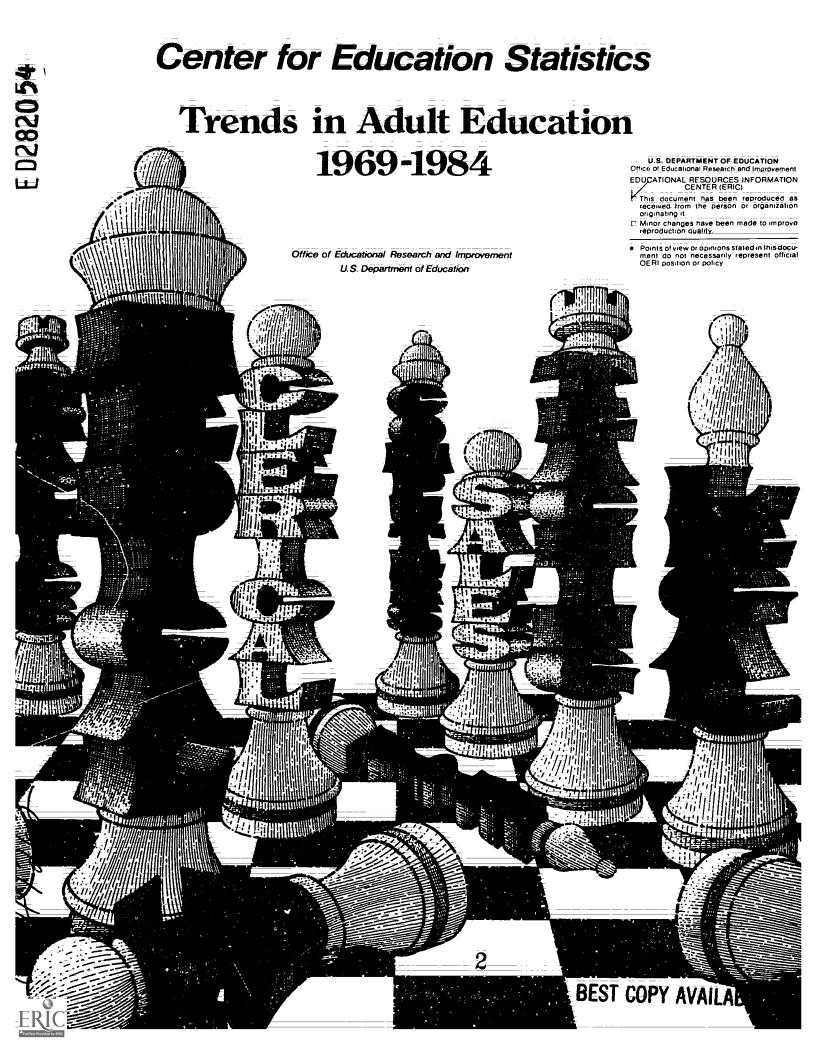
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ABSTRACT

This report presents national statistics on trends of participation in adult education. The source of the data is the Survey of Adult Education that was conducted triennially between 1969 and 1984 by the Census Bureau for the Center for Education Statistics. Overall trends are portrayed through the use of graphs. Data are presented in these areas: characteristics of adult education participants, level of adult education activities, reasons for taking adult education, adult education courses taken for credit, providers of adult education, and financing of adult education. Detailed tables on adult education courses and participants in May 1984 are provided in Appendix I. Appendix II contains detailed information on the surveys, including sources of data, reliability of the estimates, and previously published reports on the Surveys of Adult Education (which provide detailed data for 1969-81). Appendix III has information on the 1984 survey standard error tables and their use as well as the 1984 survey form and flashcard. (YLB)





Trends in Adult Education 1969-1984 Susan T. Hill Center for Education Statistics

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"The purpose of the Center shall be to collect and disseminate statistics and other data related to education in the United States and in other nations. The Center shall ... collect, collate, and from time to time, report full and complete statistics on the conditions of education in the United States; conduct and publish reports on specialized analyses of the meaning and significance of such statistics; ... and review and report on education activities in foreign countries,"—Section 406 (b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e-1).

88



For More Information

Additional information about this report is available from Susan T. Hill, U.S. Department of Education, Office of Educational Research and Improvement, Center for Education Statistics, 555 New Jersey Avenue NW., Washington, D.C. 20208-1404, (202) 357-6593. Further data are available from earlier reports for the 1969 through 1981 surveys (listed in appendix II), and in appendix I for the 1984 survey.

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Foreword

This report highlights the trends in adult education from 1969 to 1984. The data presented are based on responses from thousands of persons who provided information about their participation in formal part-time adult education to Census Bureau interviewers conducting the Current Population Survey. The Center for Education Statistics of the U.S. Department of Education sponsored the collection of these data triennially from 1969 to 1984.

Adult education is a growing sector of education. The number of persons involved in adult education increased 79 percent from 1969 to 1984, while the population 17 years old and over increased 33 percent. This growth reflects a changing concept of education in which formal instruction does not stop with a high school or college degree, but continues throughout one's life.

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Contents

Intr Char Leve Reas Adul Prov	word oduction acteristics of Adult Education Participants l of Adult Education Activities ons for Taking Adult Education t Education Courses Taken for Credit iders of Adult Education ncing of Adult Education	111 2 2 5 7 11 13
	Appēndixēs	
I. Det	tailed Tables	
Def	tailed Data From the 1984 Survey of Adult Education	19
II. Ger 19	neral Information on the Survey of Adult Education,	37
Rel	irces of the Data	39 40
Fo Eo	evicusly Published Reports on the Surveys of Adult ducation (which provide detailed data for 1969 to 1981)	41
III. Det	ailed Information on the 1984 Survey of Adult Education	43
198 198	4 Survey Standard Error Tables and Their Use 4 Survey Form and Flashcard	4 5 5 1



Figures

1.	Adult education courses taken in the years ending May 1969 to 1984, triennially	4
2.	Adult education participation rates, by age groups: Triennially 1969 to 1984	6
ā.	Adult education courses taken for job-related and non-job-related reasons: Triennially 1969 to 1984	8
4.	Adult education courses taken for job and non-job-related reasons, by sex of course taker: Triennially 1969 to 1984	9
5.	Percent of job-related adult education that was provided or sponsored by employers: Years ending May 1969 and 1984	10
6.	Percent of adult education courses taken for credit towards a degree, certificate, or license: Years ending May 1969 and 1984	10
7.	School and non-school providers of adult education: Years ending May 1969 and 1984	12
8.	Percent of adult education courses taken by men and women for job and non-job-related reasons, by school and non-school providers: Year ending May 1984	1 4
9.	Sources of payment for adult education courses: Years ending 1969 and 1984	15
ľab	les	
L.	Distribution of adult education participants and the adult population 17 years old and over, by selected characteristics: May 1969 and 1984	- 3
2.	Number of adult education courses provided by educational institutions, by type of school: Years ending May 1969, 1978, and 1984	ĪĪ
3.	Number of adult education courses given by non-school providers, by type: Years ending 1972, 1978, and 1984	13
	Percent of courses paid for by participants or their family, and average amounts paid per course, by type of provider: Year ending May 1984	ï



<u>vi</u> 8

INTRODUCTION

This report presents national statistics on trends of participants in adult education, level of adult education activity, purposes of adult education, providers and financing of adult education. The source of the data is the Survey of Adult Education that was conducted triennially between 1969 and 1984 by the Census Bureau for the Center for Education Statistics. The surveys were conducted through interviews in a national sample of about 60,000 households (see appendix II for datailed information). Overall trends are portrayed through the use of graphs; however, unpublished detailed tables on adult education courses and participants in May 1984 are provided in appendix I.

Adult education was broadly defined in the survey to encompass all courses and organized activities taken part-time and identified as adult education by respondents 17 years old or over. These persons were asked whether they had taken part in any organized adult education courses or activities, not counting full-time attendance in school, in the previous year. Examples of activities to be reported or not reported were provided to the respondent (see Appendix III - survey form and flashcard). The adult education activities ranged from credit and non-credit courses to employer training, to private instruction or lessons.

Adult education covers a multitude of activities for different purposes in the United States. In other countries, adult education tends to be more unified in purpose and providers, according to Malcolm Knowles, a leading expert in history of adult education. For example, in England and Sweden, adult education evolved primarily as national movements for the education of workers; in most developing countries, it has been primarily a means of reducing illiteracy. Knowles states, however, that adult education in the United States has grown almost haphazardly in response to myriad individual needs and interests. Because of this, adult education "has penetrated more phases of life in America than in any other country." This is reflected in the types and providers of adult education. For example 23 million adults indicated in 1934 that they participated in:

- Eleven million adult or continuing education or non-credit courses.
- Ten million courses or educational activities given by an emp! over, labor organization, neighborhood center, church, or community group.



Malcolm S. Knowles, <u>A History of the Adult Education Movement in the United States</u>. New York, N.Y., Kreiger Publishing Co., 1977, p. vi.

- Six million courses for credit as a part-time student in college, vocational school, high school, or other school.
- Four and one-half million correspondence, television, radio, or newspaper courses, private tutoring, instruction for adults who have not finished high school, or other organized educational activities.

CHARACTERISTICS OF ADULT EDUCATION PARTICIPANTS

In 1969, there were more men participating in adult education than women, but by 1984, women were the majority of adult education participants. In 1969 and 1984, certain groups of people were more likely to participate in adult education than their population representation would indicate. Some of these groups were: whites, persons with a college education, persons living in the Western States, persons with above-median incomes, or persons working in executive, professional, or technical occupations (table 1).

The characteristics of participants in adult education have not changed considerably from 1969 to 1984, with the exception of the predominance of women. The other changes in the composition of adult education participants were primarily reflections of overall changes in the adult population as a whole from 1969 to 1984. For example, a higher proportion of adult education participants were from the South in 1984 than in 1969; this reflects the fact that in 1984, more of the population resided in the South (table 1).

In contrast, there have been dramatic changes in what composes adult education (i.e., the course taken), the reasons for taking adult education, the providers and financing of adult education.

IEVEL OF ADULT EDUCATION ACTIVITIES

The number of adult education activities or courses reported taken during a year doubled — from twenty million in 1969 to over forty million in 1984 (figure 1).



Not all part-time college students considered their education to be "adult education." In 1984, only about half of part-time college students said they were taking adult education and were therefore included in this survey.

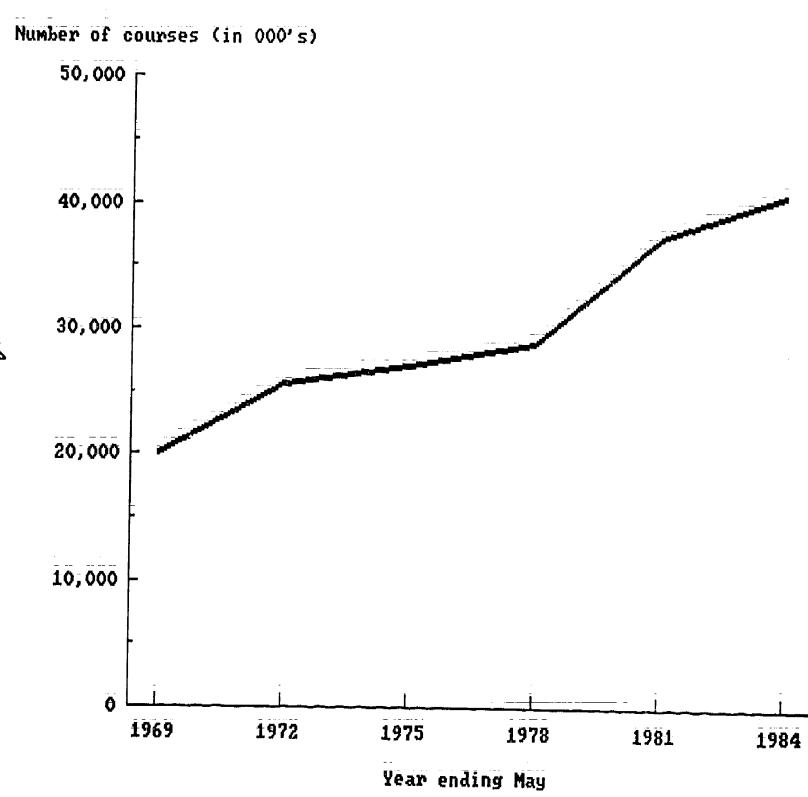
³These data were obtained from the "screening" questions for the Survey of Adult Education; see Appendix III.

Table 1:--Distribution of adult education participants and the adult population 17 years and older; by selected characteristics: May 1969 and 1984

Characteristic	Adult par	ticipants	Population 17 years old and over						
	1969	1984	1969	1984					
otal number (in thousands) otal percent	13,041 100%	23,303 100%	130,251 100%	172,583 100%					
- Sex:									
Mēri	52	45	47	47					
Women	48	55	53	53					
Race:									
White	92	92	89	86					
Black	7	72	10	11					
Other	9 <u>2</u> 7 1	6 2	1	3					
Ethnicity:									
Hispanic	•		•	6					
Age_group:									
17·34	53	50	<u>3</u> 7	42					
35-54	36								
55 and over	30 11	38 12	3 <u>5</u> 28	30 28					
Education level:		<u> </u>		==					
Less than 12th grade	16	_8	44	27					
High school graduates	39	30	34	38					
Some college (1 to 3 years)	20	26	12	18					
Some college (1 to 3 years) Bachelor's degree or higher	26	36	10	17					
Regions:									
Northeast	23	17	25	22					
North Central	30	26	28	25					
South	24	31	31	34					
West	33	24	16	20					
			,0						
Income group:									
Above median									
_family income	68	65	50	50					
Below median			# W						
family income	32	35	50	50					
Labor force status:									
Employed	78	81	57	61					
Unemployed	2	4	3	5					
Keeping house,									
going to school	18	12	27	22					
Other (retired, etc.)	3	3	13	13					
Occupational groups:*		_							
Executive/managerial	11	15	9	11					
Professional/technical	33	31	13						
Administrative support	33 17	3 J 17		15					
			15	16					
Sales and service	16	20	27	26					
Other	23	17	36	32					

[&]quot;The basis of these percents were employed adult education participants and the employed population 17 years and older. Not available.
Note: Details may not add to totals because of rounding. Source: For 1984 data, Appendix tables A and B. For 1969 data, unpublished tabulations.

Figure 1.--Adult education courses taken in the years ending May 1969 to 1984, triennially





While the upward trend in adult education activities is clear, the actual level of adult education activity may be underestimated. This is because of a limit in the survey design, which obtained detailed information on up to 4 courses taken by a respondent during the survey year. If a person took more than 4 courses, data on these courses could not be obtained. From a separate question in the 1984 survey which asked how many courses were taken during the year, it is known that approximately 2 million additional courses were taken for which detailed information was not collected in the survey. So there were actually 43 million adult education courses taken in the year ending May 1984.

What accounts for the increase in adult education from 1969 to 1984? Certainly a growing adult population would result in more people taking adult education. However, the adult population increased only 33 percent during this period, compared to a 79 percent increase in the number of adult education participants. Therefore, population growth accounts for only a portion of the growth in adult education.

Another factor that contributed to adult education growth from 1969 to 1984 is that the people involved in adult education took more courses during the year. The average number of courses taken during a year increased from 1.5 to 1.8 per participant during this period. While the char 2 in average number of courses per participant is small, it accounted for about 6 million of the twenty million increase in number of courses taken from 1969 to 1984.

However, the primary reason for the tremendous growth in adult education is that a higher proportion of people, at all ages, are taking adult education courses. In 1969, 10 percent of all adults were involved in adult education; by 1984, 14 percent were involved. The increase in the participation rates occurred at all age groups, but the increases were especially significant for the 35- to 54-year-old group and for persons 55 years old and over (figure 2).

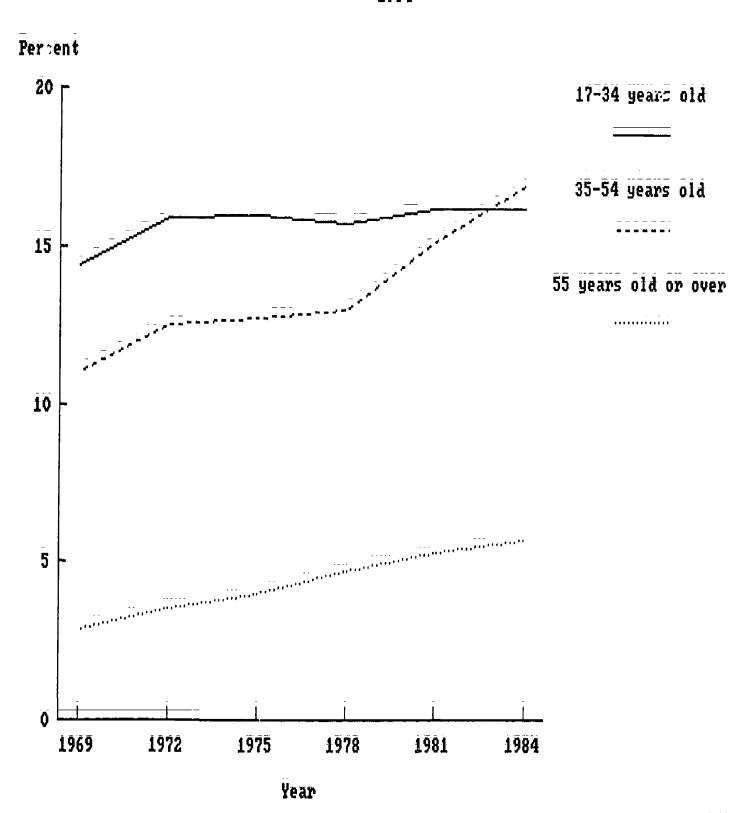
REASONS FOR TAKING ADULT EDUCATION

Many people, when they think of adult education activities, picture courses taken for general information, personal, or social reasons, such as buying a house, ceramics, or wine-tasting. While courses taken for these reasons are a significant part of adult education, they composed about half of all adult education activities in 1969, but declined to one-third of all adult education by 1984.

In reality, adult education has become closely related to the world of work. In 1969, slightly over half of all adult education courses were taken to get a job or to advance in a job; by 1984, two-thirds of adult education was taken for job-related reasons. Although the number of



Figure 2.--Adult education participation rates, by age groups: triennially 1969 to 1984





courses taken for non-job-related reasons grew from 1969 through 1984, the number of courses taken for job-related reasons outpaced it considerably, especially after 1978 (figure 3).

The growth in job-related adult education before 1978 was due primarily to an increase in women taking courses to obtain a job or to advance in their jobs. After 1978, the growth in work-related adult education was the result of large numbers of both men and women using adult education to pursue these goals (figure 4). This is perhaps related in part to training related to the "computerization" of most offices in the last decade.

In courses taken for general, personal, or social purposes, women outnumbered men 2 to 1 throughout the 15-year period under examination. In job-related courses, men outnumbered women 2 to 1 in 1969, but by 1984 men were slightly outnumbered by women (figure 4). This indicates women did not abandon the adult education courses taken for personal enrichment, but increased their participation in courses taken for job-related reasons. Men did not similarly balance their adult education participation during this period.

How much of job-related adult education has been provided or sponsored by employers? In 1984, less than half (43 percent) of the adult education courses taken for job-related reasons was provided by employers, up from 25 percent in 1969 (figure 5).

ADULT EDUCATION COURSES TAKEN FOR CREDIT

Another dramatic change in adult education between 1969 and 1984 occurred in taking courses for credit objectives. In 1969, the majority of adult education courses were taken for some type of credit, i.e., for a license, degree, or certificate. By 1984, only about a third of adult education courses were taken for credit (figure 6).

While the proportion of adult education courses taken for credit declined in general, there was one area that grew—courses taken to meet a requirement for obtaining or renewing a license or certificate in a trade or profession as required by law or regulation. The number of adult education courses taken for this purpose remained stable from 1969 to 1975, then doubled between 1975 and 1984, from 3.2 million to 6.4 million courses. As a percent of all adult education courses, these courses accounted for 12 percent in 1975, increasing to 16 percent in 1984 (unpublished tabulations).

Every State now has requirements for continuing education for licensed professional fields, such as accountants, optometrists, pharmacists, lawyers, real estate agents, etc.. According to data



Figure 3.--Adult education courses taken for job-related and non-job-related reasons: triennially 1969 to 1984

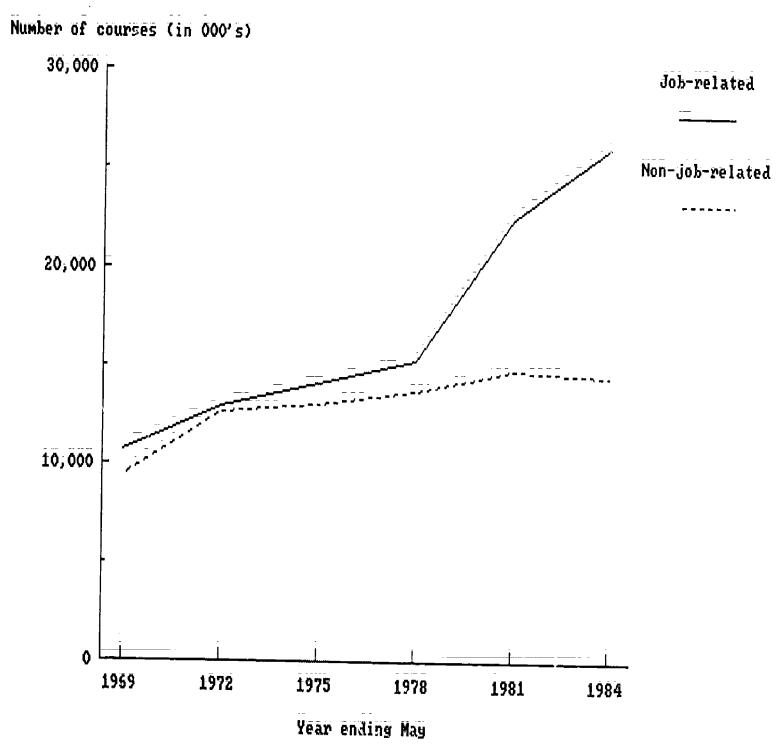
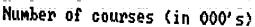




Figure 4.--Adult education courses taken for job and non-job-related reasons, by sex of course taken: triennially 1969 to 1984



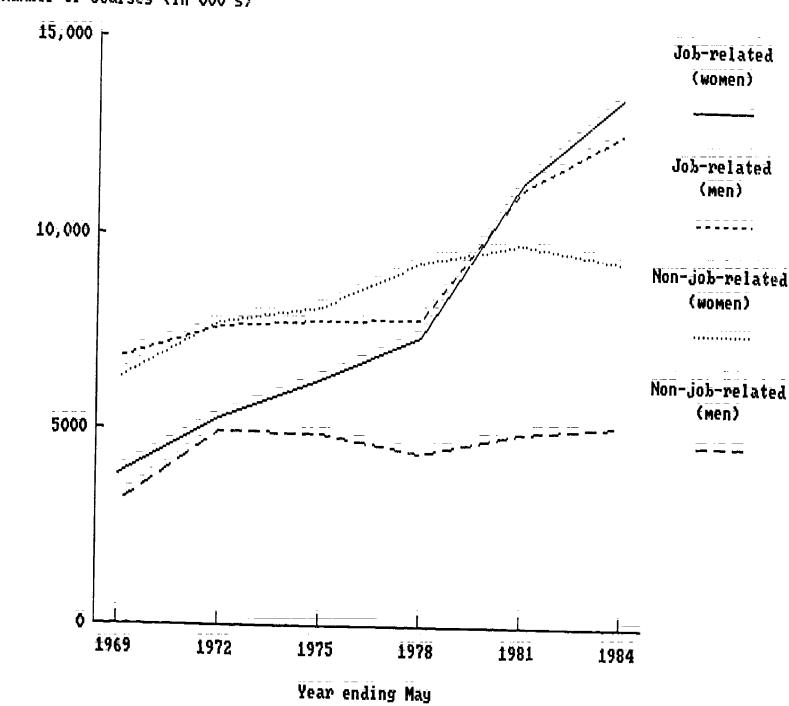




Figure 5.--Percent of job-related adult education that was provided or sponsored by employers: Years ending May 1969 and 1984

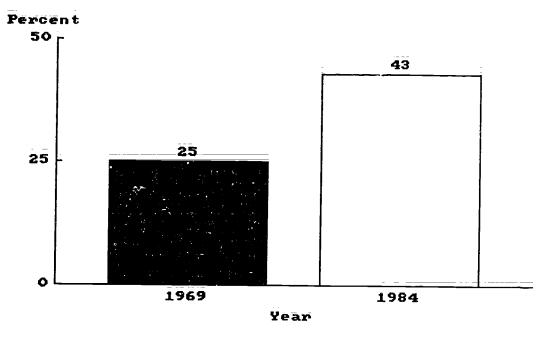
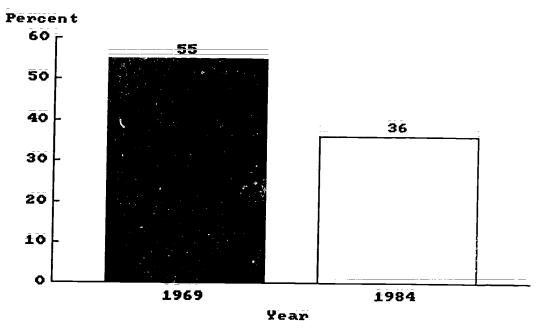


Figure 6.-- Percent of adult education courses taken for credit towards a degree, certificate, or license: Years ending May 1969 and 1984



compiled by Louis Phillips, associate director of the University of Georgia's Center for Continuing Education, "such requirements spread rapidly in the 1970's, then died down, but have resumed since 1982."

PROVIDERS OF ADULT EDUCATION

The primary providers of adult education have been schools—4-year colleges and universities, 2-year colleges, vocational/business/trade schools, elementary/secondary schools, and correspondence schools. The proportion of adult education courses provided by schools has declined overall, from 63 percent in 1969 to 53 percent in 1984 (figure 7).

There have been different trends among the various sectors of educational institutions in the number of adult education courses given. For example, from 1969 to 1984 the provider of the largest number of adult education courses was 4-year colleges and universities, but they did not increase their provision of adult education to the extent that 2-year colleges did during this period. By 1984, 2-year colleges were right behind 4-year colleges in terms of the number of adult education courses provided. Elementary/secondary schools provided fewer adult education courses in 1984 than in 1969 (table 2).

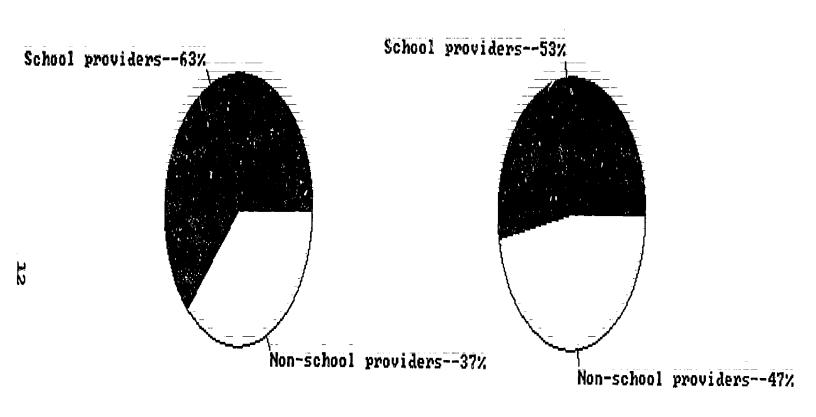
Table 2.—Number of adult education courses provided by educational institutions, by type of school: Years ending May 1969, 1978, and 1984

Type of school	Number of adult education cou							
	1969	1978	1984					
		(In thousand	s)					
4-year colleges and universities	5,300	5,700	6,900					
2-year colleges	2,600	5,300	6,800					
Vocational/trade/business schools	1,800	1,900	4,000					
Elementary/secondary schools	2,600	2,700	2,500					
Other (correspondence, etc.)	· =	900	1,300					

⁻ Not available.

⁴"More States are Requiring Professionals to Take Continuing Education Courses," Chronicle of Higher Education, May 21, 1986 (Volume XXXII, Number 12), p. 13. This article details the States with requirements for continuing education in 16 fields.

Figure 7.--School and non-school providers of adult education: Years ending May 1989 and 1984



1984

1969

ERIC

Full Tout Provided by ERIC

Non-school providers of adult education became more important from 1959 to 1984, increasing their share from 37 percent to 47 percent (figure 7). On type of provider—business and industry—grew to such an extent (table 3) that they almost equaled 4-year colleges and universities in the number of adult education courses given.

There were significant differences in the type of providers used by men and women for their job-related and non-job-related adult education courses. As shown in figure 8, for job-related courses, women used school providers more often, while men used more non-school providers, particularly business and industry. This may be related to the fact that employers provided a higher proportion of the job-related adult education taken by men (44 percent) than for women (38 percent) in 1984.

Table 3.—Number of adult education courses given by non-school providers, by type: Years ending May 1972, 1978, and 1984

Type of non-school	Number o	f adult educat	ion courses
provider-	1972	1978	1984
		(In thousand	ls)
Business and industry	_	3,150	6,850
Community organizations	2,400	2,400	3,600
Sovernment agencies		2,450	3,200
Labor/professional organizations	1,100	1,100	2,300
Tutor/private instructors	1,050	1,350	1,750

⁻ Not collected in that survey year.

For non-job-related adult education, women used non-school providers more often than men (figure 8). This is a reflection of the fact that men did not utilize private community organizations (church, YMCA, etc.) for non-job-related adult education to the extent that women did (unpublished tabulations).

FINANCING OF ADULT EDUCATION

Most adult education courses are paid for by the participant (or their family). From 1969 to 1984, however, the proportion of adult education courses that were paid for by participants declined from 57 percent to 47 percent (figure 9).



Figure 8.—Percent of adult education courses taken by sex of course-taker, job relationship, and type of provider: year ending May 1984

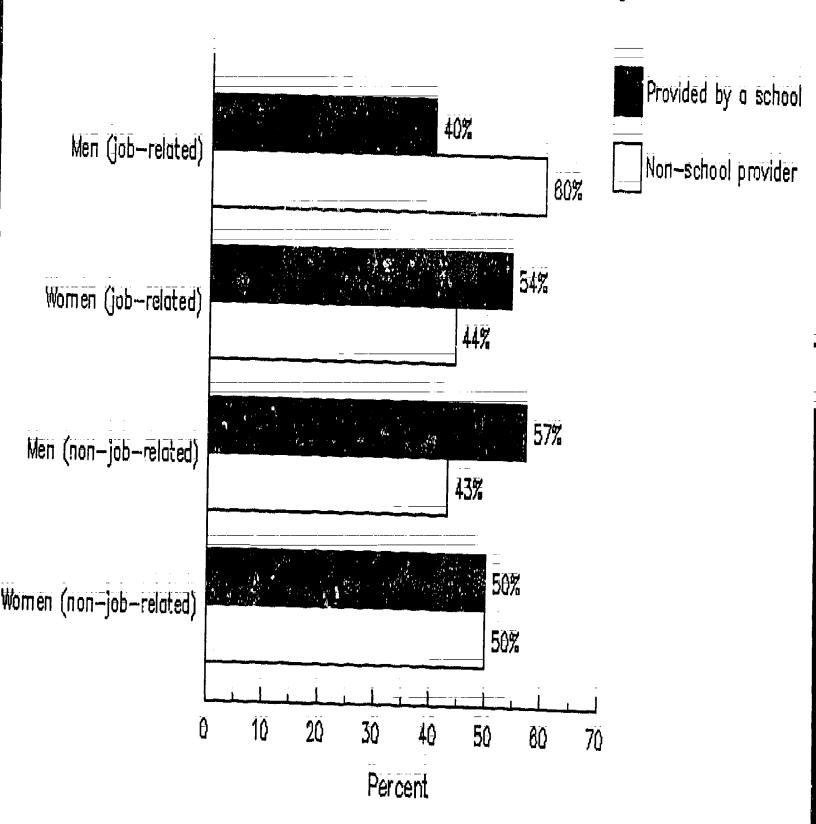
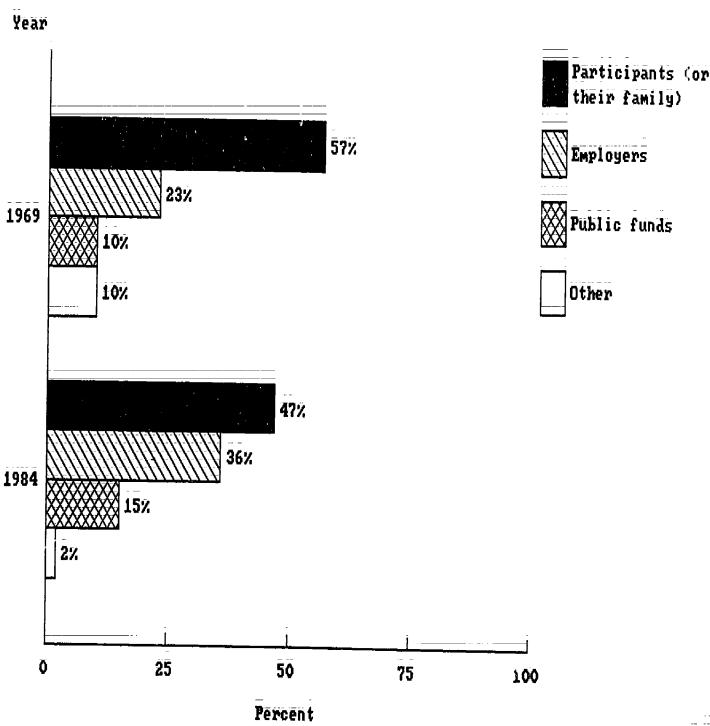




Figure 9.--Sources of payment for adult education courses: Years ending May 1969 and 1984





27

Table 4.—Percent of courses paid for by participants or their family, and average amounts paid per course, by type of provider: Year ending May 1984

Provider	ercent of courses paid for by the participants	Average amount paid per course by participants'
Total	47	\$152
School:		
4-year colleges and university	ties 65	213
2-year colleges	71	83
Vocational/trade/business		
schools	47	286
Elementary/secondary schools	61	30
Non-school:		
Business and industry	74	175
Community organizations	45	54
Government agencies	21	6 8
Labor/professional		. 2
_ organizations	38	156
Tutors/private instructors	45	54

^{*} Or their family.

Source: Derived from appendix table E.

The majority of courses provided by 4- and 2-year colleges and business and industry were paid for by the person taking the course (or their families). The costs financed by these participants were above average for those taking courses from 4-year colleges and universities (\$213) and from business and industry (\$175), but below average for 2-year colleges (\$83) (table 4).

More detailed information on providers, purposes, costs and financing of adult education courses in 1984 are provided in Appendix tables C through H.

The total amount expended by persons paying for their adult education courses totaled 3 billion dollars in 1984. The amounts expended for the other 53 percent of adult education courses that were not paid for by participants is not known. In any case, the monetary and time expenditure for adult education represent a significant investment in education which is not a part of the formal education system in this country, i.e., elementary school through college for full-time students. This reflects a slowly changing concept of "education"—one in which education does not stop after high school or college graduation, but continues throughout life, often related to work or to personal interests.





29

More adult education courses are being paid for by the participants' employers and by public funds (such as Federal, State, or local government programs). By 1984, less than half of all adult education courses were paid for by the participants themselves.

The average amount participants paid per course in 1984 was \$152. The cost per course varied considerably, however, depending upon the type of providers. The average amounts paid by participants ranged from a high of \$286 per course taken at vocational schools to a low of \$30 per course taken at elementary/secondary schools (table 4).

Appendix I

Detailed Data from the 1984 Survey of Adult Education

- Table A.—Age and sex of participants in adult education, by population characteristic: United States, year ending May 1984
- Table B.—Iabor force status and sex of participants in adult education, by population characteristic: United States, week ending May 16, 1984
- Table C.—Number of courses taken by participants in adult education, by age and sex of participant and by course characteristic: United States, year ending May 1984
- Table D.—Number of courses taken by participants in adult education, by labor force status and sex of participant, and by course characteristic: United States, week ending May 16, 1984
- Table E.—Number of adult education courses taken by men and women, by provider of instruction and by course characteristic: United States, year ending May 1984
- Table F.—Number of courses taken by participants in adult education, by selected objectives and by course characteristic: United States, year ending May 1984
- Table G.—Number of adult education courses taken by men, by main reason for taking course and by course characteristic: United States, year ending May 1984
- Table H.—Number of adult education courses taken by women, by main reason for taking course and by course characteristic: United States, year ending May 1984



(NUMBERS IN THOUSANDS)

	Total Men &				Men							Women			
Population Characteristic	Vomen	Total	17 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over		17 to 24 years	25 to 34 years	35 to 44 years	45 to 34 years	55 to 64 years	65 years
Total	23,303	10;445	1,556	3,738	2,636	1,405	819	291	12,857	2,118	4,292	2-106			
Race/ethnic group:				·	,	2, 112			421001	2,110	4,272	3,125	1,698	1,050	37
Mon-Hispanic	22,506	10,085	1,475	3,586	2,562	1,369	802	291	12,421	2,028	¥ 104	1.000	4.481		
White	20,429	9,201	1,309	3,206	2,365	1,287	752	282		1,798	4,104	3,032	1,654	1,033	56
Black	1,506	622	121	264	143	51	38	6	884		3,676	2,762	1,497	960	53:
Other	571	262	45	117	54	32	12	0 3	309	191	319	185	105	53	3
Elspanic	796	360	81	152	74	37	17	, *	309 436	39 90	109 188	85 93	5 <u>2</u> 44	<u>21</u> 16	3
Years of school completed:															•
Elementary: 0 to 8 years	493	240	35	62	32	61	30	 20	253	- 44	75	7.1	27	==	
Bigh school: 1 to 3 years	1,397	592	235	138	79	67	45	28	. B04	. <u>2</u> 9	17	42	34	46	56
4 years,	. 6,991	2,838	676	883	572	397	248			354	140	122	61	57	70
College: 1 to 3 years	6,022	2,545	419	1,000	649	286	131	62	4,153	792	1,210	958	621	401	170
4 years		2,040	161	946	501	250		61	3,476	567	1,193	836	422	235	144
5 years or more		2,190	30	710	803	344	144 222	39 81	2,502 1,669	252 45	1,071 631	643 524	309 251	155 156	72 62
Veterans (Men)	3,654	3,654	76	630	1,244	887	667	150	=	- +					
innual family income:					-,	•	V 07	130	•	•	*	•	•	*	ř
Under \$5,000	797	271	00	486	47	**	-	=	=						
\$5,000-7,499	712	271	89	108	36	28	6	4	526	176	163	66	42	32	48
\$7,500-9,999	742		_86	112	30	14	20	. 8	442	106	159	61	34	17	65
\$10,000-12,499	1 000	296	105	101	50	14	15	12	446	115	147	_67	33	23	60
\$12,500-14,999	1,089	411	116	168	61	17	23	26	678	166	229	111	63	57	32
\$15,000-17,499	1,028	370	_ 61	144	69	32	20	24	658	138	236	109	78	5 <u>4</u>	42
\$17,500-19,999	1,253	524	128	229	64	40	37	26	729	178	276	111	51	58	54
\$20,000-24,999		572	121	269	_96	32	36	19	683	112	268	147	63	.66	27
\$20,000"20,977 \$35.000"20,977	2,625	1,117	150	527	256	85	75	25	1,508	226	575	333	181	139	53
\$25,000-29,999	2,503	1,210	145	536	305	139	37	28	1,292	165	524	330	126	114	33
\$30,000-34,999	2,505	1,197	1 <u>38</u>	455	344	153	88	20	1,308	181	489	339	158	109	32
\$35,000-39,999	. 1,919	927	85	366	255	143	<u> 61</u>	17	992	127	358	267	162	62	16
\$40,000-49,999	. 2,626	1,247	107	314	415	245	135	31	1,379	172	397	437	248	100	
\$50,000-74,999	. 2,543	1,211	124	267	366	267	157	30	1,332	147	314	459	268		26
\$75,000-Over	. 1,011	520	45	71	194	140	58	11	491	42	83	180		123	21
Not reported	. 695	302	36	73	95	57	34	9	393	68	7 <u>4</u>	108	129 61	51 44	<u>6</u> 39
abor force status:															
Labor force	19,788	9,823	1,395	3,645	2,609	1,377	696	101	9,965	1,732	3,518	à £9£	1 466	764	
Employed	18,929	9,449	1,266	3,513	2,547	1,346	677	99	9,481			2,575	1,398	633	109
Unemployed	859	374	123	132	62	31	19	2		1,563	3,361	2,488	1,339	621	109
Not in labor force	3,515	622	161	94	27	28	123		484	169	158	87	59	12	
Keeping house		13	2	Ĝ	1	2 <u>0</u>	123	190	2,893	386	774	550	300	417	466
Going to school	524	202	127	, 50	iÌ	9		4	2,165	175	642	465	247	320	316
Other	. 813	407	52	30 37	15	9 20	1	100	322	159	89	47	14	6	6
		74/	16	3/	13	∠U	122	182	405	52	42	37	39	90	145



	Total Men &			· -	Hen							Vomen			
Population Characteristic	Women.	<u> </u>	17 to	25 to	35 to	45 to	lte at	 	 	176 :		· .		,	
		Total				54 yenta	55 to 64 years	65 years and over		17 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years
Occupation (Employed):					·	· 		- 			A				ــــ
Total prof. specialty	4,955	2,237	85	822	726	345	210	48	4-118	57 (1.224	212	727	111	
Teachers, exc. college		367	1	126	130	76			2,718	224	1,039	810	404	212	2
College teachers	167	82	<u>.</u>	17		20	23	5	1,128	84	385	382	173	87	29 18
Health disgnosing occ		297	ë	75	28 91	<u>4</u> 0 66	17	<u>. </u>	85	2	34	27	14		
Health assessment				73	71	00	50	15	49	•	27	10	2	ii	ï
and treatment	946	149	ä	ii		;;		-							
Other	2,000	1,342	70	528	44 434	16	3	1	<u> 191</u>	12	326	225	108	62	•
Exec., admn. & managerial		1,600	87	544 544	434 526	167	116	27	658	_66	267	166	107	44	8
Technicians & related		2,000	0,	344	326	291	139	12	1,146	110	415	363	183	69	(
support,	974	626	52	240	447	-:									
Sales workers.	1-019	1,101	167	240 376	114 280	47	20	2	448	70	234	.74	47	20	. 3
Admin. Support,	1,702	1,101	10/	3/0	280	165	87	27	831	233	260	196	96	27	19
incl. clerical	3,127	520	110	888	4 8 T	74	47	-	1 771						-
Service occupation		568 668		202	104	63	39	į	2,607	505	866	652	389	177	17
Farming, forestry & fishing.	368	277	186	218	151	64	47	2	1,147	32B	330	241	142	84	21
Precision prod.,	200	211	74	75	57	37	28	6	91	18	23	26	19	2	2
craft & ropair	1 777	1 400													
Machine operators,	1,111	1,608	249	641	407	230	81	•	169	23	70	40	22	12	2
assmblers & Inspectors	597														
Transp. & materials moving.	339	402	<u>91</u>	170	76	53	12	*	195	29	87	45	21	12	2
Bandlers, equip. cleaners,	337	290	56	118	77	27	Π	*	49	*	10	20	9	Ā	6
helpers & laborers	110	6/6					-								
merhere a renoraration	348	269	109	106	27	24	Į	2	80	24	26	20	6	3	#
egion:															
Northeast,	3,994	1,747	229	 (5£	 200										
North Central	6,474	2,841	431	576	509	239	140	54	2,248	348	710	588	317	185	100
A .1		3,306	537	1,028	686	388	233	74	3,632	663	1,202	823	467	317	159
West		•	337 358	1,166	807	442	257	97	4,016	672	1,373	954	521	312	183
	21213	2,551	328	968	634	336	190	65	2,962	435	1,008	757	393	236	133

*Less than 500 persons.

Note: Details may not add to totals because of rounding.



Table B.--Labor force status and sex of participants in adult education, by population characteristic: United States, week ending May 15, 1984 (NUMBERS IN THOUSANDS)

		Total		-		en			T		Wo	omen	 -	
		Men and		In lat	or force	Not	in labor	force		In lab	or force	Not 1	in labor fo	orce
Population C	haracteristīc — -	Women	Total	Employed	Un- employed	Keeping house	School	Other	Total	Employed	Un- employed	Keeping house	School	Other
Total									<u> </u>			<u></u>		
	** * * * * * * * * * * * * * * * * * * *	23,303	10,445	9,449	374	13	202	407	12,857	9,481	484	2,165	322	405
Âge:														
17 to 24 ye	ears	3,674	1,356	1,266	128	ä	103							
25 to 34 ye	BATS	8,030	3,738	3,513	132	2	127	32	2,118	1,563	169	175	159	52
35 to 44 ye	ars	5,761	2,636	2,547	62	í	50	37	4,292	3,361	159	642	89	52 42
45 to 54 ye	ars	3,103	1,405	1,346	31	*	1 <u>1</u> 9	1 <u>5</u>	3,125	2,488	87	465	47	37
55 to 64 ye	ars	1,869	819	677	19		1	20 122	1,698	1,339	59	247	14	37 39 90
65 years ol	d and over	856	291	99	Ž	Ā		122 182	1;0 <u>50</u> 575	621 109	12	320 316	6 6	90 145
Race/Ethnic G	roup:											310	Ū	143
Mon-Rispanic	************	22 506	10 005											
White		22,506 20,429	10,085	9,135	347	13	187	404	12,421	9,194	443	2,086	297	402
Black	***********	1,506	9,201	8,401	261	8	152	379	11,228	8,335	348	1,922	257	366
Other	***************************************	571	622 262	519	68	3	10	21	884	653	82	90	27	31
Hispanic		796	360	215 314	18 27	2	25 16	3	309	205	13	74	13	4
Years of Scho	ol Completed:			7- 7	~'	•	10	3	436	287	41	79	25	4
Elementary:	: 	744	270			_	- 							
ligh School:	0 to 0 years	493	240	184	21	•	14	20	253	93	25	105		
**Bit School:	1 to 3 years	1,397	592	422	76	5	50	- 38	804	398	90	189	<u>. 9</u> 87	22
College:	years	6,991	2,838	2,5C	143	5	36	146	4,153	2,965	148	869	65	_ <u>40</u>
orrede.	1 to 3 years	6,022	2,545	2,307	84	<u>2</u>	65	87	3,476	2,579	148	510	124	106
	4 Years	4,542	2,040	1,937	35	*	19	49	2,502	2,014	36	353	24	115
	5 years or more	3,858	2,190	2,091	14	*	18	67	1,669	1,432	38	139	13	<u>76</u> 48
eterans (men)		3,654	3,654	3,309	108	Š	14	219	- *	- *	*	ä	ě	=
nnual Family	Income:							-2.				•	•	*
Under \$5,000		797	271	184	έħ	Ī	==							
\$5,000-7,499	******	712	270	193	52		21 12	14	526	282	78	97	34	34
\$7,500-9,999		742	296	215	37	1	12	27	442	251	39	115	12	34 25 28
\$10,000-12,4	99	1,089	41I	326	35	3	24	20	446	244	44	117	13	28
\$12,500-14,9	99	1,028	370	312	32	#	14	38	<u>678</u>	<u> 506</u>	24	104	ŽÍ	22 16
\$15,000-17,4	99	1,253	52 <u>4</u>	453	22	2	6	28	658	499	18	111	15	16
\$17,500-19,9	99	1,255	57 <u>2</u>	_ 508	26	# -	10	35	729	542	21	130	13	23
\$20,000-24,9	99	2,625	1,117		19	#	13	35 31 36	683	538	2 <u>4</u>	<u>-</u> 8	7	30
\$25,000-29,9	99	2,503	1,210	1,035 1,119	32	7	13		1,508	1,130	52	244	31	51
\$30,000-34.99	99	2,505	1,197	1,119	35 36	4	15	37	1,292	972	53	200	28	39
\$35,000-39,99	99,	1,919	927	883	36 10	T A	5	31	1,308	1,010	36	220	20	22
347,7777,47,4	,,,,,,,,,,,,,,	2,626	1,247	1,185	10	2	10	23	992	751	23	173	26	18
\$50,000-74,99	99	2,543	1,211	1,140	. <u>9</u> 10	# _	18	34	1,379	1,094	28	199	30	28
\$75,000 - ove	r	1,011	520	496	19		24	28	1,332	1,086	2 <u>2</u>	165	31	28
Not Reported.		695	302	490 274	1 9	₩ #	13	9 12	491	321	6	115	28	21
,		075	302	2/4	9	*	4	16	393	254	16	90	12	2



Table B .-- Labor force status and sex of participants in adult education, by population characteristic: United States, week ending May 16, 1984 (continued)

	Total				Ken					Wr	omen	Women						
	Men and	Total	In lat	bor force	Not	t in labor	force	Total	In la	bor force	Not	in labor fo	force					
Population Characteristic	Women		Employed	Un- employed	Keeping house	School	Other		Employed	Un- employed	Keeping house	School	Other					
Occupation (Employed):			A	<u></u>	<u> </u>				1		<u> </u>		<u></u>					
Total prof. speciality	4.933	2,237	2,237	, <u>-</u>	_				그로시트달		-	-						
Teachers, exc. college	. 17496	367				•	•	2,718										
College teachers	. 167				-	•	-	1,128	- ,		-		•					
Health diagnosing occ	. 346		82 297		-	-	•	85			•	•	•					
Health assessment			671	•	~	-	•	49	''	-	_	-	•					
& treatment	. 946	. 149	149		-							_						
Other	2:000	1.342	1,342		-	• -	•	797		-	•	, <u> </u>	-					
Exec., admin & managerial	2:747	1,522	1,342		-	• -	-	658		-	•		-					
Technicians & related support	924	476	1,600 1,475		-	-	-	1,146		-	-		-					
Sales workers	1.932	1,101	_ 4/6 1,101	-	<u>.</u>	-		448	448	•	-		_					
Admin. support,				-	~	-	-	831	831	-	-		-					
_incl. clerical	1.127	520	520	_		-	-											
Service occupation	1.814	<u>520</u> 668	520 668	•	*	-	• -	2,607	2,607	-	-	-						
Farming, forestry & fishing	368	999 27 <i>7</i>	<u>068</u> 277	•	•	-	-	1,147	1,147	-	-	-	•					
Precision prod., craft,			411	-	-	-	•	91	91	-	-	-						
and repair	i <i>jij</i>	1,608	1 - 609															
Machine operators,	49111	1,000	1,608	-	•	-	-	169	169	-	•	-	•					
assemblers & Inspectors	597	402	402	_				174										
Transp. & materials moving	339 339	402 290	402 290	-	-	•	•	195	195	•	-	-						
Handlers, equip. cleaners,		Lyu	470	-	-	*	•	49	¥9	•	-	•	•					
helpers & laborers	348	269	269	-	•	•	•	80	80			-						
Region:								<u>.</u> .				-	-					
Northeast	3,994	1,747	1,587	17														
North Central	6.474	2,841	1,387 2,547	147	<i>‡</i> 1	37 47	_74	2,248	1,639	88	410	54	56					
	7,322	3,306	2,54/ 3,028	144 82	Ī	47	102	3,632	2,712	159	577	5.0	96					
		2,351	3,028 2,287	82	ž	39	152	4,016	2,985	126	684	<u>89</u> 86 94	135					
177 2722227 12	3,323	4,332	4,401	101	3	79	79	2,962	2,144	111	494	94	119					



⁻ Not applicable.

Note: Details may not add to totals because of rounding.

Table C. --Number of courses taken by participants in adult education, by age and sex of participant and by course characteristic: United States, year ending May 1984

(NUMBERS IN THOUSANDS)

Course Characteristic				Courses t	ken by me	in					Courses	taken by	vomen		
	Total		17-24	25 21	30 11				· · · · · ·						
	10041	Total	years	25-34 years	35-44 years	45-54 ÿears	35-64 years	years	Total	17-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65+ years
Total courses	ĀÖ,752	17,770	2,574	6,509	4,622	2,324	1,328	413	22,981	3,563	7,907	5,900	2,994	1,796	822
Main reason for taking course:									. ,	-,000	,,,,,,	3,300	4,774	1,770	044
Job-related reasons	26,159	12,607	1 101												
To get a new job.	4,802	1,823	1,394 502	4,774	3,585	1,820	908	126	13,552	1,854	4,880	3,889	1,930	861	138
In current or former occupation	984	395	302 40	790	307	154	56	15	2,978	866	1,033	748	264	59	9
In new occupational field	3,818	1,428	462	218	77	37	19	_ 4	_ 589	128	196	185	54	59 24	1
To improve or advance in current job	19,703	10,004		571	230	117	37	.11	2,390	738	H36	563	210	34	8
Other job-related reasons	1,634	10,004	835	3,665	3,035	1,567	797	105	9,699	880	3,495	2,934	1,537	727	125
Non-job-related reasons	14,447		58	319	244	99	55 420	5	875	_ IQB	352	207	128	76	5
For American citizenship.		5,117	1,170	1,720	1,024	495	-	28 <u>7</u>	9,330	1,676	3,014	1,987	1,050	919	684
For general education.	34	I9	.10	7			2	.*	15	2	::3	2	Ī	*	2
To train for volunteer work	3,358	1,447	395	503	206	74	43	27	1,911	673	633	31?	150	85	52
For personal or social reasons	520	_ 208	. 30	- 60	61	21	25	11	312	21	98	65	-53	46	29
Other nun-job-related reasons	10,230	3,298	492	1,093	734	392	342	246	6,932	949	2,202	1,579	832	780	590
Not reported	306	146	44	39	23	9	8	3	160	31	76	24	10	9	10
nen nepakandeteteretetetetetetetetetetet	145	46	9	15	13	İÖ	*	Ř	99	32	13	24	15	15	*
chool credit objectives:															
Elementary or high school diploma	950	361	209	110	00		¥								
Vocational certificate/diploma	1,429	599		110	26	11	Š	*	589	233	180	107	50	10	. 8
2-year college degree credit	2,155	B63	103	243	121	88	40	3	830	217	275	148	138	38	14
4-year college degree credit	2,019		345	377	91	32	5	13	1,292	388	515	255	108	26	ŧ
Postgraduate or professional degree	1,877	821	268	379	136	36	_2	•	1,197	375	463	270	58	23	8
None of the above or not reported	32,322	889	89	542	175	64	15	4	988	58	564	263	89	14	
tepotecu	34,344	14,237	1,559	4,857	4,072	2,093	1,262	393	18,085	2,292	5,910	4,855	2,552	1,684	792
rade or professional objectives:														•	
To obtain a license or certificate	2,898	1,380	294	638	280	109	55	-	1.748	831	221	,			
To renew a license or certificate	3,522	1,492	52	442	514	249	203	_3	1,319	361	591	372	133	51	10
None of the above or not reported	34,331	14,899	2,227	5,428	3,828		1,070	<u>31</u> 379	2,030 19,433	119 3,082	707 6,609	577 4,950	345	243	39
rovider of instruction:						·	·		47,440	J, VOL	0,009	4,320	2,516	1,502	773
Elementary or high school	- ·														
2-year college or technical institute	2,495	773	193	230	140	120	66	24	1,723	324	452	411	307	169	60
A-Year college or themselves institute	6,820	2,638	692	962	557	215	149	63	4,183	952	1,397	960	500	261	112
4-year college or university	6,928	2,913	441	1,285	706	306	123	53	4,015	621	1,581	1,054	483	218	58
Vocational, trade, or business school	3,983	1,576	290	601	338	159	130	28	2,407	466	866	559	294	179	13
Other school	1,251	528	108	176	133	74	17	19	723	86	266	183	107	48	34
Tutor or private instructor	1,730	634	120	241	129	65	55	24	1,096	166	344	290	127	127	
Business or industry	6,862	4,092	363	1,568	1,166	612	346	37	2,770	350	1,051	851		161	43
Labor organization or professional assn	2,294	1,285	52	398	462	220	138	15	1,009	48	342	304	324 TDI		33
Government agency	3,223	1,578	158	487	51 0	249	144	28	1,645	142	573	376	184 276	113	17
Private community organization	3,617	1,075	101	313	312	149	94	106	2,541	295	761	525	275	180	100
Other, dld not know, or not reported	1,547	678	57	248	168	124	66	15	-,	472	7.07	943	305	253	303

Table C.--Mumber of courses taken by perficipants in adult education, by age and sex of participant and by course characteristic: United States, year ending May 1984 (continued)

Courses taken by men Courses taken by women Course Characteristic Total Total 17-24 25-34 35-44 45-54 35-64 65+ Total 17-24 25-34 35-44 45-54 55-64 65+ years years years years years Year years years years years years years Employer provided course for employees.... 5,873 485 2;153 1,804 921 471 39 5,469 568 2,015 1,575 421 804 86 Source of payment for course: Self or family only..... 19,018 6,940 1,373 2;440 1,626 728 544 229 12.078 2,092 4,077 2,939 1,613 956 402 Self or family & additional sources(s)... 627 96 291 122 62 23 33 964 159 311 289 106 67 31 Public funding only..... 5,914 2,798 372 866 825 460 234 41 3,116 510 1,054 708 467 260 116 Public funding & additional sources(s)... 645 199 46 95 25 12 10 11 445 89 . 128 133 49 33 13 Business or industry only..... 10,165 5,845 540 2,383 1,645 871 378 27 4,320 500 1,700 1,333 502 247 38 Business or industry & additional _sources..... 820 425 41 220 104 36 18 6 395 _33 165 120 . 44 . 24 9 Private organization only...... 2,118 779 68 236 249 120 76 31 1,339 138 388 333 181 150 149 Private organization and other 210 103 10 45 17 24 3 4 106 _15 _27 _30 .11 10 11 Other sources only..... 1,430 516 76 186 106 60 47 41 935 125 302 244 109 94 61 Other sources_not specified above...... 119 13 17 8 1 13 74 27 11 25 8 _1 Did not know & not reported..... 200 89 23 2 31 16 10 7 111 29 27 1 9 15 Employer was a source of payment..... 7,891 670 3,092 2,302 1,209 571 47 6,909 2,645 1.967 986 479 98 Amount paid by self or family: Total dollars reported (in \$000s)..... 2,988,312 1,396,344 290,424 322,625 129,091 51,217 21,147 581,841 1,591,968 347,062 544,019 429,995 166,785 71,600 32,586 Average dollars per course (in units).... 194 212 220 194 173 86 127 165 129 137 101 Number of courses for which an amount Was reported.... 19,686 7,187 1,369 2,643 1,662 747 521 245 12,500 2,109 4,210 3,128 1,650 418

*Less than 500 pesons.

Ñ

Note: Details may not add to totals because of rounding.

Table D.--Number of courses taken by participants in adult education, by labor force status and sex of participant, and by course characteristic: United States, week ending May 16, 1984

(NUMBERS IN THOUSANDS)

	Total		Courses Ta	iken By Men				Courses Taken By Women					
Course Characteristic	courses	<u></u>	In Labo	or Force	Not	În Labo	r Force		In Lab	or Force	Not	In Labo	r Force
		Total	Employed	Un- employed	Keeping House	School	Other	Total	Employed	Ua- employed	Keeping House	School	Other
	<u> </u>		<u> </u>		<u></u>	L		<u></u>		<u> </u>			
Total courses	40,752	17,770	16,317	559	13	306	575	22,981	17,622	824	3,339	561	635
Main reason for taking course:					=								
Job-related reasons,	26,159	12,607	12,082	312	1	102	109	13,552	11,993	432	776	220	112
To get a new job	4,802	1,823	1,484	203	ī	80	35	2,978	1,942	295	495	239 202	114
In current or former occupation	984	395	329	45	*	14	.7	389	460	293 41	433	34	40
- In new occupational field	3,818	1,428	1,156	158	1	66	47	2,390	1,482	254	451	168	10
To Improve or advance in current job	19,703	10,004	9,878	76	*	12	38	9,699	9,324	97	191	28	112 45 10 35
Other job-related reasons	1,654	779	720	34	*	10	16	875	_ 728	41	91	ģ	7
Non-job-related reasons	14,447	5,117	4,189	246	12	204	466	9,330	5,352	390	2,544	321	523
For American citizenship	34	19	11	2	•	. 6		15	8	111	7	321	*
for general education	3,358	1,447	1,171	96	3	103	74	1,911	1,170	166	355	145	74
To train for volunteer work	520	208	180	3	*	1	23	312	. 134	_11	_ 133		31
For personal or social reasons	10,230	3,298	2,719	136	9	79	355	6,932	4,151	211	2,002	163	404
Other non-job-related reasons	306	146	108	ģ	Ť	15	14	160	89	2	48	7	15
Not reported	145	46	46	*	*	ŧ	ŧ	99	77	2	19	1	*
School credit objectives:													
Elementary or high school diploma	950	361	234	93	ä	14	iā	589	200	100			
Vocational certificate/diploma	1,429	599	525	56	*	\$	19 14	2 <u>07</u> 830	200 578	129	203	<u>29</u>	29
2-year college degree credit	2,155	863	759	42		32	30	1,292	1,011	68 101	145 94	20	19
4-year college degree crestt	2,019	821	236	18		50	18	1,197	963		108	66	20
Postgraduate or professional degree	1,877	889	844	- 31	*	2	13	988	926	30		81	16
None of the above or not reported	32,322	14,237	13,219	319	13	204	482	18,085	13,945	5 492	49 2,739	1 364	- <u>7</u> 545
rade or professional objectives:									·		·		
To obtain a license or certificate	2,898	1,380	1,268	70		X /	48		1 127	72			
To renew a license or certificate	3,522	1,492	1,453	10		24 _11	18	1,519	1,164	63	212	65	16
None of the above or not reported	34,331	14,899	13,596	485	<u></u>	_11 272	-24 533	2,030	1,842	18	129	13	27
	,	* 1,227	25,570	405	*3	212	253	19,433	14,616	743	2,998	483	592
rov ler of instruction:													
Elementary or high school	2,495	773	623	67	6	16	_61	1,723	1,066	122	434	ãi	60
2-year college or technical institute	6,820	2,638	2,305	131	*	69	132	4,183	3,090	216	612	150	115
A-year college or university	6,928	2,913	2,679	70	<u>*</u>	85	79	4,015	3,419	77	317	115	87
Mocational, trade, or business school	3,983	1,576	1,418	83	*	23	53	2,407	1,892	118	273	79	45
Other school	1,251	528	459	36	(ı	21	12	_ 723	505	32	131	33	23
Tutor or private instructor	1,730	634	563	23	1	22	26	1,096	_ 718	63	241	39	35
postiess of thingerthere in the second	6,862	4,092	4,024	23 30	*	9	28	2,770	2,552	39	138	13	29
Labor organization or professional assn	2,294	1,285	1,260	17	•	2	5	1,009	949	_1	<u> </u>	2	_7
Government agency	3,223	1,578	1,466	56	*	10	45	1,645	1,297	62	218	15	. 53
Private community organization	3,617	1,075	899	32	Ä	37	103	2,541	1,468	68	796	56	154
Other, did not know, or not reported	1,547	678	619	14	Ž	12	30	870	665	21	136	19	28



Table D.--Number of courses taken by participants in adult education, by labor force status and sex of participant, and by course characteristic: United States, week ending May 16, 1984 (continued)

(NUMBERS IN THOUSANDS)

Course Characteristic	Total		Courses Taken By Men						Courses Taken By Women					
		Total	In Labor Force		Not In Labor Force			Total	In Labor Force		Not In Labor Force			
			Employed	Un- employed	Keeping House	School	Other		Employed	Un- employed	Keeping House	Schoo	I Other	
Employer provided course for employees	11,342	5,873	5,758	62	Ī	12	41	5,469	5,212	52	146	 14	45	
Source of payment for course:														
Self or family only	19,018	6,940	6,175	262	Ä	184	315	12,078	8,686	489	0-100	 AR1	400	
Self or family & additional sources(s)	1,591	627	564	20		15	28	964	800 800		2,183	3 <u>54</u>	366	
Public funding only	3,914	2,798	2,483	160	Š	51	100	3,116	2,287	24 209	. BO	32	28	
Public funding & additional sources(s)	613	_ 139	173	16	Ĭ	2	100	445	2,20 <u>7</u> 325	18	431	118	70	
Business or industry only	10,165	5,845	5,751	49	*	12	33	4,320	4,159	10	62 92	27 15	14 24	
Business or industry & additional			·	-			•	7,520	7,207	30	72	13	49	
sources	820	423	417	.4	*	i	Ž	395	381	1	•	-	10	
Private organization only	2,118	779	690	26	*	21	Ā	1,339	880	1 3 <u>3</u>	333 333	14	10	
Privata organization and other	210	103	.80	_8	*	12	1	106	77	ي د	18	1 <u>6</u> 5	77	
Other sources only	1,450	516	413	28	5	20	51	935	643	23	192	19	3	
Other sources not specified above	119	45	32	<u>*</u>	*		14	71	65	23	172	4	90	
Did not know & not reported	200	89	77	5	*	4	Ī	111	17 17	8 13	10	Ž	58 1 9	
Employer was a source of payment	14,800	7,891	7;741	83		17	30	6,909	6,661	ŚĀ	139	ë	48	
mount paid by self or family:														
Total dollars reported (in \$000s)	2,988,312	1,396,344	1.242.820	79,303	96	47,521	26,603	1,591,968	1,206,641	28.822	146.944	4517462	NA 66A	
Average dollars per course (in units)	152	194	194	309	25	249	20,003	1,371,700	1,200,041	60,866 126	219,273 100	74,256	,	
Number of courses for which an amount			224	***	•		*-	12/	133		100	197	81	
was reported	19,686	7,187	6,409	256	Ä	191	327	12,500	9,070	483	2,189	376	381	

*Less than 500 persons.

Note: Details may not add to totals because of rounding.

Table E.--Number of adult education courses taken by men and women, by provider of instruction and by source of payment: United States, year ending May 1984 (NUMBERS IN THOUSANDS)

Source of payment		_	Provider of instruction									
	Total courses	Elementary/		4-year college or university		Tutor/ private in- struction	Business or industry	Labor organi- zation or professional association	Government agency	Private community organization	Other & no.	
						Men		<u> </u>			<u> </u>	
Total courses	17,770	773	2,638	2,913	1,576	634	4,092	1,285	1,578	1;075	1,206	
Source of payment for course:										,	,	
Self or family only	6,940	431	1,712	1,562	775	413	419	441	: 190	7.48	ÉOÓ	
Self or family & additional source(s)	627	25	134	271	48	11	.34	51	170	418	580	
Public funding only	2,798	246	353	291	182	45	150	115		26 47	10	
Public funding & additional source(s)	199	20	.78	.54	11	2	9	113 Ž	1,184		184	
Business or industry only Business or industry & additional	5,845	23	354	630	462	84	3,369	495	17 102	<u>4</u> 62	265	
source(s)	<u>425</u>	5	74	188	27	į	Ä.Ā	50			:7	
Private organization only Private organization & additional	779	*	8	87	41	<u>.7</u> 20	48 27	132	36	_ <u>11</u> 394	33	
source(s)	103	<u> </u>	5 42	36	14	2	_2	12	*	22	,	
Other sources only Other sources & source(s)	516	41	42	36 52	46	53	52	23	29	99	78	
specified above	45	* 5	22	7	3	*	Ż	3	i	ż	*	
Did not know & not reported	89	_	3	7	11	*	iī	8	1 11	7 11	23	
Employer was a source of payment	7,891	90	518	1,098	582	134	3,225	654	1,029	173	389	
amount paid by self or family:												
Cotal dollars reported (in \$000s)	1,396,344	13,901	161,988	402,409	283,030	110,578	125,122	93,477	ሳደ ወወለ	na ni i	167 177	
Average dollars per course (in units)	194	32	93	229	359	279	282	202	25,880 135	23,214 56	156,744 287	
was reported	7,187	434	1,750	1,761	787	396	443	462	192	414	547	

Table E.--Number of adult education courses taken by men and women, by provider of instruction and by source of payment: United States, year ending May 1984 (continued)

Source of payment		Provider of instruction									
	Total	Elementary/ high school		4-yēār college or university	1	Tutor/ private in- struction	Business or industry	Labor organi zation or professional association	Government agency	Private community organi- zation	Other & not reported
						Women	·		·		
Source of payment for course:											
Self or family only	12,078	1;046	2,978	2,590	1,059	890	582	365	45 4	1,205	909
Self or family & additional source(s)	964	43	275	292	105	5	40	62	36	52	.53
Public funding only	3,116	487	412	389	318	žŽ	130	101	1,012	67	173
Public funding & additional source(s)	445	36	121	136	56	2	1	24	38	11	. 22
Business or industry only Business or industry & additional	4,320	70	370	582	678	86	1,903	325	56	95	155
source(s)	395	5	128	128	38	_1	42	31	3	4	14
Private organization only Private organization & additional	1,339	21	33	59	91	23	44	114	23	853	זֹז
source(s)	106	. 2	. 2	20	ģ	Ż	Ż	13	i	4 <u>8</u>	j
Other sources only Other sources & source(s)	935	46	90	85	132	59	40	32	34	230	185
specified above	74	*	33	ģ	11	*	3	3	*	_5	10
Old not know & not reported	111	6	8	3	12	5	14	†	21	20	22
imployer was a source of payment	6,909	208	672	1,094	985	98	1,956	493	75 0	285	369
mount paid by self or family:											
otal dollars reported (in \$000s) werage dollars per course (in units)	1,591,9 <u>68</u> 127	31,642 29	241,829 78	552,385 203	256,681 233	126,541 144	59,483 98	42,063 103	19,801 41	54,124 53	197,419 217
umber of courses for which amount was reported	12,500	1,079	3,098	2,726	1,103	881	609	103 408	41 480	1;207	217 908

^{*}Less than 500 persons.

Note: Details may not add to totals because of rounding.



Table F.--Number of courses taken by participants in adult education, by selected objectives and by course characteristic: United States, year ending May 1984 (NUMBERS IN THOUSANDS)

					School Cr	edit Objec	tives		Trade or	Professional	Objectives
Course Characteristic	Total Courses	Eighth Grade Certi- ficate	High School Com- pletion	Voca- tional Certi- ficate/ Diploma	2-Year College Degree	4-Year College Degree	Post- Graduate Degree	None/ Not Reported	To Obtain a License Or Certi- ficate	To Renew a License Or Certificate	Neither/ Not Reported
Total courses	40,752	4	946	1,429	2,155	2,019	1,877	32,322	2,898	3,522	34,331
fain reason for taking course:								·	,	.,	51,551
Job-related reasons	26,159	Ż	117	1,265	1,457	 		AA : 678	2 774	2	
To get a new job,	4,802	2	44	565		1,110	1,504	20,705	2,643	3,353	20,163
In current or former occupation	984	*			804	488	355	2,545	1,247	73	3,481
In new occupational field	3,818		_ <u>3</u> 40	96	127	116	124	518	216	48	720
To improve or advance in current job	19,703	<u> </u>		469	676	372	232	2,027	1,032	_25	2,762
Other job-related reasons	1,654		31	649	599	592	1,021	16,812	1,262	2,994	15,447
on-job-related reasons	-	" *	42	52	54	30	127	1,348	134	285	1,235
For American citizenship	14,447	2	826	163	69 <u>2</u>	887	365	11,512	248	160	14,040
For general education	34	7	a a •			. 5	<u>.</u> .*	. 29	*	ä	34
For general aducation To train for volunteer work	3,358	* :	721	43	536	745	266	1,048	84	ŽŽ	3,248
For personal or social reasons	520	*		15	_11	<u>*</u>	*	494	41	28	440
Other possible of Social regsons	10,230	2	83	95	130	100	84	9,736	108	76	10,046
Other non-job-related reasons	306	*	22	10	16	37	15	205	15	19	272
ot reported	145	*	4	1	5	22	8	105	7	9	129
rovider of instruction:											
lementary or high school,	2,495	*	426	÷Ϊ	ė		-		-		
-year college or technical institute	6,820	Ž	188	74	3	. 8	_4	1,980	63	68	2,364
-year college or university	6,928	į		325	1,830	452	77	3,946	622	232	5,967
ocational, trade, or business school	3,983		14	115	154	1,467	1,603	3,575	609	546	5,773
ther school	1,251		101	432	93	48	61	3,249	473	724	2;786
ifor or private instructor		<u></u>	78	39	12	*	32	1,090	122	83	1,046
isiness or industry	1,730	-	15	. 37	2	3	2	1,672	. 64	681	1,598
abor organization or professional assn.	6,862	*	9	163	15	23	2 33	6,618	447	450	5,965
overnment agency	2,294	*	2	39	11	*	13	2,229	125	618	1,550
rivate community organization	3,223	*	63	144	12	3	11	2,989	227	432	2,564
ther, did not know, or not reported	3,617	2	23	36	.7	8	_8	3,533	76	142	3,399
mlover provider course for reported	1,547	*	27	25	15	6	34	1,440	70	159	1,319
ployer provider course for employees	11,342	*	18	430	147	138	204	10,406	728	1,372	9,243

Table F. -- Number of courses taken by participants in adult education, by selected objectives and by course characteristic: United States, year ending May 1984 (continued)

					School Ca	edit Objec	tives		Trade or	Profession	l Objective
Course Characteristic	_Tetal Courses	Eighth _Grade Certi- ficate	High School Com- pletion	Vocational Certificate/ Diploma	2-Year College Degree	4-Year College Degree	Post- Graduate Degree	None/ Not Reported	To Obtain a License Or Certi- ficate	To Renew a License Or Certificate	Neither/ Not Reported
Source of payment for course:	-				<u> </u>	· · · · · · · · · · · · · · · · · · ·				- 	·k
Self or family only	19,018		231	620	1,388	1,376	1,087	14,314	1,629	1.450	15,940
Self or family & additional source(s)	1,591	*	30	72	228	177	239	845	158	145	1,287
Public funding only	5,914	*	560	306	246	130	150	4,523	440	591	4,883
Public funding & additional sources(s)	645	*	21	39	111	57	66	351	84	64	497
Business or industry only	10,165	ä	13	335	250	283	330	8,955	514	1,000	8,651
Business or industry and additional								·			
sources(s)	820	Ť	*	20	122	95	143	440	68	. 90	662
Private organization only	2,118	2	4	44	7	23	34	2,004	73	173	1,872
Private organization & additional	****	_				- 				2,2	2,012
source(s)	210	*	_6	*	*	16	28	159	16	24	170
Other sources only	1,450	*	82	47	11	24	19	1,267	63	118	1,270
Other sources & source(s) specified abovo	119	×	7	17	24	3	16	52	11	6	102
Did not know & not reported	200	*	11	1	5	3	2	178	2	8	190
Employer was a source of payment	14,800	Ť	19	517	432	443	660	12,730	873	1,690	12,238
Amount paid by self or family:											
Cotal dollars reported (in \$000s)	2,988,312	<u> </u>	11,517	247,659	194,275	300,939	406,573	1,827,340	559,521	174,100	2,254,691
verage dollars per course (in units)	152	Ĭ.	49	383	128	204	315	126	339,321	174,100	137
lumber of courses for which an amount		-7	7,	263	120	404	213	140	231	111	13/
was reported	19,686	Ż	235	647	1,514	1,475	1,291	14,522	1,692	1,517	16,478

*Less than 500 persons.

Note: Details may not add to totals because of rounding.



Table G.--Number of adult education courses taken by men, by main reason for taking course and by course characteristic: United States, year ending May 1984

					Main reas	on for tak	ing course				<u>:</u>
Course Characteristics	Total		Job-relate						related reas	on	4
		Improve current job	New job in same occupation	New job in new occupation	Other	Personal/	Train for volunteer work		Citizenship training	Other	Reason not reported
Total courses taken by man	17,770	10,004	395	1,428	779	3,298	208	1,447	19 19	146	46
School credit objectives:											
Elementary or high school diploma	361	23	.*	. 11	 :_8	. <u>-</u> 40		267	ij.	11	<u>.</u>
Vocational certificate/diploma	599	274	47	176	13	45	7	29 29	-	11	*
2-year college degree credit	863	248	46	255	16	65	4	221	<u> </u>	6	1
4-year college degree credit	821	279	27	105	13	48		324	5	<u>. 5</u>	4
Postgraduate or professional degree	889	_ 428	67	91	83	47	÷	167		18	2
None of the above or not reported	14,237	8,753	209	790	647	3,052	197	439	.* 14	18 98	38
Trade or professional objectives:											
To obtain a license or certificate.	1,380	667	111	406		 to	- ·	Tu			
To renew a license or certificate	1,492	1,296	16	- <u>19</u>	64 99	52	24	46	*	10	*
None of above or not reported	14,899	8,041	268	1,004	. 88 627	35 3,210	21 162	10 1,391	* 19	6 130	.1 45
Provider of instruction:						ŕ		-,,	•	130	43
Elementary or high school	773	173	÷	ŕŕ	1.5		:		<u>:</u>		
2-year college or tech. institute	2,638	796	7 ōō	55	12	319	1	186	2	13	Ĩ4
-year college or university	2,913	1,552	99 123	465 220	90	659	20	481	*	18	10 13
ocational, trade, business school.	1,576	864	58	232	149	351	.7	448	5	3 <u>4</u> <u>6</u>	13
ther school	528	212	ð 26	2 <u>57</u>	35	262	11	81	*	6	<u>2</u>
utor or private instructor.	634	212	.4	68 . 34	22 26	151	9	47	5	. 5	*
usiness or industry	4,092	3,436	_4 58	185	26 177	299	10	25 51	* -	22	3
abor organization or professional			70	193	1//	174	3	51	*		*
association	1, 285	1,152	13	iä	7.7	äï	;;				
overnment agency	1,578	1,055		13	47	24	16	13	*	2	4
rivate community organization	1,075	191	<u> </u>	17	1 <u>11</u> 57	188	7 <u>2</u>	41	*	13	3
ther, did not know or not reported	678	360	2 <u>1</u> 2 1	13 73 17 30	5 <i>1</i> 54	<u>689</u> 182	52 7	36 37	7 ¥	23 1	3 2 5
										•	J
mployer provided course											
for employees	5,873	5,012	65	204	324	174	13	64	*	10	7

Table G.--Number of adult education courses taken by men, by main reason for taking course and by course characteristic: United States, year ending May 1984 (continued)

					Main reas	on for tak	ing course				
Course Characteristics	Total		Job-relate	d reason			-	Non-job	related reas	on	-
	Courses	Improve current job	New job in same occupation	New job in new occupation	Other	Personal/	Train for volunteer work		Citizenship training	Other	Reason not reported
Source of payment for course:											
Self or family only	6,940	2,276	226	871	273	2,304	46	819	5	94	24
Self or family & additional sources	627	337	23	77	7	78	_2	97	*	_6	*
Public funding only	2,798	1,690	53	236	172	231	70	303	9	22	11
Public funding & additional source(s)	_ 199	79	14	36	8	24	*	38	*	*	*
Business or industry only Business or industry & additional	5,845	5,037	74	185	274	142	3	114	*	9	6
source(s)	425	266	13	23	18	40	3	59	÷	j	Ä
Private organization Only Private organization & additional	779	357	9	15	24	296	.3 50	22	3	3 3	*
source(s)	103	48	*	26	8	15	6	*	*	*	*
Other sources only Other sources & source(s)	516	181	9	34	12	186	20	65	2	6	- *
specified above	45	18	*	4	*	21	1	*	*	3	*
Old not know & not reported:	89	25	*	4	2	23	11	19	*	4	*
Employer was a source of payment	7,891	6,667	115	242	400	231	13	196	*	13	14
Amount paid by self or family											
Total dollars reported (in \$000s)	1,396,344	528,556	65, <u>138</u>	292, <u>662</u>	60,796	287,073	3,548	138,724	380	14,359	5107
werage dollars per course (In units) number courses for which amount was	194	213	273	325	219	127	73	162	80	152	228
was reported	7,187	2,477	239	901	278	2,269	48	854	5	94	22

^{*}Less than 500 persons.

Note: Details may not add to totals because of rounding.

Table H. -- Number of adult education courses taken by women, by main reason for taking course and by course characterist inited States, year ending May 1984

					Main reas	on for tal	ing course				
Course Characteristic	Total		Job-relate	d reason				Non-job	-related reas	on	4
SOUTH CHARGETTISTIC	courses	Improve	New job in same	New job in new	<u> </u>	Personal/	Train for volunteer		Citizenship		Reason not reporte
		job	occupation	occupation	Other	social	work	education		Other	rehorre
<u>.</u>						· 					<u></u>
Total courses taken by women	22,981	9,699	589	2,390	875	6,932	312	1,911	15	160	ģ
School credit objectives:											
Elementary or high school diploma	589		3	_31	34	45	ŭ	ï 61	ā		
Vocational certificate/diploma	830	375	48	293	38	50 50	ā	454	.	11	
2-year college degree credit	1,292	351	82	421	39	65	8	13	T	_5	,
4-year college degree credit	1,197	313	89	267	17	51 51	<u> </u>	315		11	
Postgraduate or professional degree	988	593	57	140	45	31 37		4 <u>21</u>	*	19	1
None of the above or not reported,.	18,085	8,059	309	1,238	702	6,684	297	. 99 609	15	8 107	6
Trade or professional objectives:										•••	V
To obtain a license or certificate.	1,519	594	105	626	71	67		71	=	-	-
To renew a license or certificate	2,030	1,699	. 32	. 6	197	56	17	37	<u> </u>	<u>.</u> 6	7
None of above or not reported	19,433	7,406	451	1,758	607	41 6,836	17 278	17 1,857	. * 15	_13 142	.8
Provider of instruction:						·		-,		172	04
lementary or high school	1,723	327	28	181			 -	***			_
-year college or tech institute	4,183	1,192	151	723	_70	. 807	9	280	3	11	. (
-year college or university	4,015	1,929	208	743 542	150	1,228	15	684	1	24	1.
ocational, trade, business sch	2,407	1,325	299 79	401	145	573	16	507	<u>8</u>	48	46
ther school	723	208	14 14		104	359	16	105	*	_7	10
utor or private instructor	1,096	221	13	101 74	23 16	283	8	63	≜	19	1
usiness or industry	2,770	2,097	44			732	9	21	3	7	1
abor organization or professional	2,770	2,037	44	152	137	294	2	37	*	4	4
association	1,009	852	17	 20		 	-			_	
Overnment agency	1,645	851	16	25	38	64	. 3	3	*	*	1
rivate community organization	2,541	329	1 <u>0</u> 10	89 E0	99	495	25	62	1	1	1
ther, did not know or not reported	870	368	10 7	52 50	61	1,742	198	107	2	32	9
· an man #charpen	0/0	200	1	50	31	356	13	41	1	1	1

36

Table E.--Number of adult education courses taken by women; by main reason for taking course and by course characteristic: United States; year ending May 1984 (continued)

	•	•									•
	<u> </u>	<u> </u>			Main reas	on for tak	ing course				
Course Characteristic	Total		Job-relate	d reason				Non-job	related reas	on	Reason
		Improve current job	New job in same occupation	New job in new occupation	Other	Personal/ social	Train for volunteer work		Citizenship training	Other	not reporte
Employer provided course for employees	5,469	4,524	91	243	307	212	17	 68	-	ī	
Source of payment for course:											
Self or family only	12,078	3,125	403	1,615	340	5,179	84	1,146	4	107	7.
Self or family & additional source(s)	964	489	24	157	71	118	8	95	*	Ä.	,
Public funding only	3,116	1,667	45	311	156	424	27	459	8	10	
Public funding & additional source(s)	445	175	12	98	37	70	*	50	*	3	
Business or industry only	4,320	3,552	101	205	220	140	5	82	*	2	1
Business or industry & additional			-		-					_	_
_source(s)	395	282	12	30	34	.11		26	*	*	,
Private organization only		443	7	22	34	635	139	44	2	13	1
Private organization & additional	,								_		
source(s)	106	50	*	5	4	34	Ž	į		÷	i
Other sources only Other sources & source(s)		324	j	41	43	375	7 46	72	2	24	į
specified above	74	20	- *	28	3	8	2	13	*	2	- 1
Did not know & not reported	111	36	2	22	4	35	2	9	*	*	•
Employer was a source of payment	6,909	5,661	127	307	397	224	22	151	*	7	14
Amount paid by self or family:											
Total dollars reported (in \$000s)	1,591,968	500,257	89,586	418,456	39,059	380,099	9,378	129,131	158	19,909	5,937
Average dollars per course (in units) Number courses for which amount was		144	224	248	99	74	106	110	40	187	10 <u>1</u> 59
was reported	12,500	3,464	401	1,690	393	5,115	89	1,179	4	106	22

^{*}Less than 500 persons.

Note: Details may not add to totals because of rounding.



Appendix II

General Information on the Survey of Adult Education, 1969 to 1984

Sources of the data Reliability of the estimates Previously published reports on the surveys of adult education (which provide detailed data for 1969 to 1981)



Sources of the data

The estimates are based on sample data collected trienially from May 1969 to May 1984 from the Current Population Survey (CPS). The CPS is conducted by the Bureau of the Census monthly and deals with labor force data for the civilian noninstitutional population. Questions relating to labor participation are asked about each member in every sample household. In May of the years the Survey of Adult Education was conducted, additional questions relating to adult education activities were asked of each civilian household member 16 years of age or older. When possible, a personal or telephone interview was conducted with each identified adult education participant, or a proxy if the person was not available.

The CPS sample was selected from the most recent decennial census file available, updated to reflect new construction permits, area samples, and undercoverage. The number of households in the CPS samples varied from 47,000 to 60,500 during the 15-year period. Table A provides a description of the CPS sample designs in use during the referenced data collection period.

Table A.—Description of the Current Population Survey sample areas and housing units: Triennially, May 1969 to May 1984

	Number of	Housing Units Eligible				
CPS survey of:	sample areas	Interviewed No	ot Interviewed ²			
May 1984	629	58,000	2,500			
May 1981	629	58,000	2,500			
May 1978	614	53,000	2,500			
May 1975	461	45,000	2,000			
May 1972	449	45,000	2,000			
May 1969	449	48,000	2,000			

These areas were chosen to provide coverage in each State and the District of Columbia.

The estimation procedure used in this survey involved the inclation of weighted sample results to independent estimates of the total civilian noninstitutional population of the United States by age, race, and lex. These independent estimates were based on statistics from the military decennial census; statistics on births, deaths, immigration, and emigration; and statistics on the strength of the Armed Forces. Estimates in the tabulations for May 1981 and later years utilized independent estimates derived from the 1980 Decennial Census. Estimates for May 1975, and 1978 utilized independent estimates derived from the 1970 Decennial Census, while estimates for May 1969 used the 1960 Decennial Census. See the third section of this Appendix for information on the impact of these changes on population estimates.



The "nonrespondents" were occupied units visited but interviews vare not obtained because the occupants were not found at home a var repeated calls or were unavailable for some other reason.

Reliability of the estimates

Since the CPS estimates were based on a sample, they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same questionnaires, instructions, and enumerators. There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling. The accuracy of survey results depend on the sampling and nonsampling errors, but the full extent of the nonsampling error is unknown. The standard errors provided for the CPS estimates primarily indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration, but do not measure any systematic biases in the data. (Bias is the difference, averaged over all possible samples, between the estimate and the actual value.)

- (1) Nonsampling Variability. As in any survey, the results are subject to errors of response and nonreporting, in addition to sampling variability. Non sampling errors can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness on the part of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to represent all units with the sample (undercoverage). Under-coverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage, as compared to the level of the 1980 Decennial Census, was about 7 percent for the May 1984 survey; CPS second stage weighing corrected for this differential undercoverage.
- (2) <u>Sampling Variability</u>. The standard errors given in the following tables are primarily measures of sampling variability, that is, of the variation that occurred by chance because a sample rather than the entire population was surveyed. The sample estimate and its standard error enable one to construct confidence intervals, ranges that would include the result of a possible sample with a known probability. For example, if all possible samples were selected, each of these being surveyed under essentially the same general conditions and using the same sample design, and if an estimate and its standard error were calculated from each sample, then approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the result of a possible sample.

For a particular sample, one can say with a specified confidence that the estimate derived from a sample is included in the confidence interval. In this report, differences between estimates were discussed in the text only if they were statistically significant at the 95 percent confidence level. For further information, see appendix III—1984 Survey Standard Error Tables and Their Use.



Previously published reports on the Surveys of Adult Education (which provide detailed data for 1969 to 1981)

- U.S. Department of Education, National Center for Education Statistics, <u>Participation in Adult Education, 1981</u>. Washington, D.C., National Center for Education Statistics, 1983.
- U.S. Department of Education, National Center for Education Statistics, Participation in Adult Education, 1978. Washington, D.C., National Center for Education Statistics, available upon request.
- U.S. Department of Health, Education, and Welfare, National Center for Statistics, <u>Participation in Adult Education</u>, 1975. Washington, D.C., Government Printing Office, 1978. (This report also contains trend for May 1969, 1972, and 1975.)

Separament of Health, Education, and Welfare, National Center for ation Statistics, Participation in Adult Education, 1972. Washington, C., U.S. Government Printing Office, 1976.

U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, <u>Participation of Adult Education</u>: Final ort, 1969. Washington, D.C., U.S. Government Printing Office, 1974.

Also available is the first adult education survey conducted in 1957:

U.S. Department of Health, Education, and Welfare, "Participation in Adult Education, Based on the October 1957 Current Population Survey." Washington, D.C., Office of Education, Circular No. 539, 1959.



Appendix III

III. Detailed Information on the 1984 Survey of Adult Education

1984 Survey Standard Error Tables and Their Use 1984 Survey Form and Flashcard



1984 SURVEY STANDARD ERROR TABLES AND THEIR USE

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations would be required. Therefore, instead of providing an individual standard error for each estimate, generalized sets of standard errors are provided for various types of characteristics. As a result, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

Standard Errors For Data Based On The CPS Sample

The entries of tables A-1 and A-3 are approximations to standard errors for numbers of persons. The figures shown in tables A-2 and A-4 are approximations to standard errors for numbers of courses. Standard errors for intermediate values not shown in the generalized tables may be approximated by linear interpolation.

Two parameters (denoted "a" and "b") are used to calculate standard errors for each type of characteristic; they are presented in table A-5. These parameters were used to calculate the standard errors for estimated numbers and percentages. Methods for direct computation are given in the following sections.

Standard Errors of Estimated Numbers

The approximated standard error, ${}^{\sigma}_{x}$, of an estimated number of persons or courses can be obtained in two ways. It may be obtained by interpolation from tables A or B. Alternatively, standard errors may be approximated by the following formula (1), from which the standard errors were calculated in tables A-1 and A-2.

Use of this formula will provide more accurate results than the use of interpolation in the generalized standard error tables.

$$\sigma_{x}^{-} = \sqrt{ax^{2} + bx}$$
 (1)

Here x is the size of the estimate and a and b are the parameters in table A-5 associated with the particular type of characteristics.



Illustration of the Computation of the Standard Error of an Estimated Number

Suppose that in May 1984, there were 1,299,000 black non-Hispanic participants in adult education. Using formula (1) and the appropriate a and b parameters from table A-5, the standard error of the estimate is about

$$\sqrt{(-0.000018)(1,299,000) + (2749)(1,299,000)} = 60,000$$

This means that a 68-percent confidence interval for the number of black non-Hispanic participants in adult education is from 1,239,000 to 1,359,000. A 95-percent confidence interval is from 1,179,000 to 1,419,000.

Standard Error of Estimated Percentages

The reliability of an estimated percentage, computed using sample data for both numerator and denominator, depends on both the size of the percentage and the size of the total upon which the percentage is based. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. When the numerator and denominator of the percentage are in different categories, use the parameters or standard error tables indicated by the numerator. The approximate standard error, \circ (x,p), of an estimated percentage can be obtained by use of the generalized standard error tables A-3 and A-4. Alternatively, standard errors may be approximated by formula (2), from which standard errors in tables A-3 and A-4 were calculated; direct computation will give more accurate results than use of the standard error tables.

$$\sigma(\mathbf{x},\mathbf{p}) = \sqrt{\frac{\bar{\mathbf{b}}}{\mathbf{x}}} \bar{\mathbf{p}} - (100 - \mathbf{p})$$
 (2)

Here x is the size of the subclass of persons or courses which is base of the percentage, p if the percentage (0<p<100), and b is the parameter in table A-5 associated with the particular type of characteristic in the numerator of the percentage.



⁵Use of the generalized standard error table A-1 gives a standard error of approximately 58,000.

Illustration of the Cumputation of the Standard Error of a Percentage

Suppose that of the 1,299,000 black non-Hispanic participants in adult education, 283,000 or 21.8 percent were in the 17-24 age group. Using formula (2) and the b parameter for number of persons from table A-5, the standard error on an estimate of 21.8 percent is

$$= \sqrt{\frac{2,749}{1,299,000}}$$
 (21.8) (78.2) = 1.9 percent

Consequently, a 68-percent confidence interval for the percentage of black non-Hispanic participants in adult education in the 17-24 age group is from 19.9 to 23.7 percent. A 95-percent confidence interval is from 18.0 to 25.6 percent.

Standard Error of a Difference

For a difference between two sample estimates, the standard error is approximately equal to

$$\frac{1}{\sigma(x-y)} = -\sqrt{\frac{2}{\sigma_x^2 + \sigma_y^2}}$$
(3)

where ${}^{\sigma}x$ and ${}^{\sigma}y$ are the standard errors of the estimates x and y; the estimates can be of numbers, percents, ratios, etc. This will represent the actual standard errors quite accurately for the difference between two estimates of the same characteristic in two different areas, or for the difference between separate and uncorrelated characteristics in the same area. If, however, there is a high positive (negative) correlation between the two characteristics, the formula will overestimate (underestimate) the true standard error.

Illustration of the Computation of the Standard Error of a Difference

As stated earlier, suppose that in 1984, 21.8 percent of black non-Hispanic participants in adult education were in the 17-24 age group. Suppose also that 18.0 percent of white non-Hispanic participants in adult education (18,674,000) were in that age group. Thus, the apparent difference between the percent of black and of white non-Hispanic participants in that age group is 3.8 percent. Using formula (2), the approximate standard error on 18.0 percent is 0.5 percent. Therefore, using formula (3), the standard error of the estimated difference of 3.8 percent is about

$$\sqrt{(1.9)^2 + (.5)^2} = 2.0 \text{ percent}$$

⁶Using standard error table A-3, the approximate standard error is 2.0 percent.



′ c

This means that the 68-percent confidence interval for the difference between the percent of black and white non-Hispanic participants in the 17-24 age group is from 1.8 to 5.8 percent, and the 95-percent confidence interval is from -0.2 to 7.8 percent.

Note When Using Small Estimates

Caution should be used when summary measures (such as median and percentage distributions) are computed on a base less than 75,000. Because of the large standard errors involved, there is little chance that summary measures would reveal useful information when computed on a smaller base.

Table A.-1. Standard Errors for Estimated Numbers of Persons (Numbers in thousands)

Size of Estimate	Standard Error	Size of Estimate	Standard Error
<u>10</u>	5	750	45
10 15 25 50 75	6	1,000	45 52 82
25	8	2,000	82
50	12	5,500	115
	14	10,000	160
100	17	25,000	240
250	26	50,000	304
500	37	100,000	308

Table A-2. -- Standard Errors for Estimated Numbers of Courses (Numbers in thousands)

Size of Estirate	Standard Error	Size of Estimate	Standard Error
10	7	750	63
15	9	1,000	73
25	11	2,500	116
50	16	5,000	165
7 5	20	7,500	204
100	23	10,000	239
250	36	25,000	400
500	5 <u>1</u>	30,000	446

Table A-3. -- Standard Errors for Estimated Percentages of Persons

se of Estimated Percentage			Estimate	d Percenta	age		
(thousands)	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	25 or 75	50
10	5.2	7.3	11.4	1.5.7	18.7	22.7	26.
15	4.3	6.0	9.	2.8	15.3	18.5	21.
25	3.3	4.6	7.2	9.9	11.8	14.4	16.
50	2.3	3.3	5	7.0	8.4	10.2	11.
75	1.9	2.7	4.2	5.7	6.8	8.3	9.
100	1.6	2.3	3.6	5.0	5.9	7.2	8.
250	1.0	1.5	2.3	3.1	3.7	4.5	5.
500	0.7	1.0	1.6	2.2	3.0	3.2	3.
750	0.6	0.8	1.3	1.8	2.2	2.6	3.
1,000	0.5	0.7	1.1	1.6	:.∋	2.3	2.
2,500	j 0.3	0.5	0.7	1.0	i.i	1::4	1.
5,000	0.2	0.3	0.5	0.7	0.8	e:î	1.
7,500	0.2	0.3	0.4	6.6	6.7	0.8	1.
10,000	0.2	j 0.2 j	0.4	0.5	0.6	0.7	0.
25,000	0.1	0.2	0.2	0.3	0.4	0.5	O.
50,000	0.1	j 0.1 j	0.2	0.2	0.3 j	0.3	0.
100,000	0.1	0.1	0.1	0.2	0.2	0.2	0.3
155,000	0.1	0.1	0.1	0.1	0.2	0.2 j	0.

Table A-4. - Standard Errors for Estimated Percentages f Courses

ase of Estimated Percentage			Estimate	l Percent	age		
(thousands)	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	25 or 75	50
10	7.2	10.1	15.7	21.7	25.8	31.3	36.
15	5.9	8.3	12.9	17.7	21.1	25.5	29.
2 5	4.5	6.4	10.0	13.7	16.3	19.8	22.
50	3.2	4.5	7.0	9.7	11.5	14.0	16.
75	2.6	3.7	5.8	7.9	9.4	11.4	13.
100	2.3	3.2	5.0	6.9	8.2	9.9	11.
250	1.4	2.0	3.1	4.3	5.2	6.3	7.
500	1.0	1.4	2.2	3.1	3.6	4.4	5.
1,000	0.7	1.0	1.6	2.2	2.6	3.1	3.0
2,500	0.5	0.6	1.0	1.4	1.6	2.0	2.
5,000	0.3	0.5	0.7	1.0	1.2	1.4	1.0
7,500	0.3	0.4	0.6	0.8	0.9	ī.ī i	1.:
10,000	0.2	0.3	0.5	0.7	0.8	1.0	ī.,
25,000	0.1	0.2	0.3	0.4	0.5	0.6	ō.
30,000	0.1	0.2	0.3	0.4	0.5	0.6	0.

Table A-5.-- Parameters to be Used to Obtain Standard Errors for Estimates of Persons or Courses

Type of Characteristic	Parameters					
	ä	ğ				
Persons	-0.000018	2749				
Courses	+0.000047	5221				



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TELEPHONE HOLD (Mark this box for office "telephone hold"					
cases only)					

Population

SURVEY

May 1984

Page 1

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			•	<u> </u>				. [
18A.	18B. RELATIONSHIP	18C	18D. AGE	18E. MARITAL STATUS	18E	1BG. SEX AND	18H, HIGHEST			!
LINE	TO REFERENCE PERSON	PARENT'S		Married - civilian	SPOUSE'S	VETERAN STATUS	GRADE.	-	1	
NO.	Reference Person WITH	LINE	1 =	spouse present	LINE	Maie (Also-Mark	. ATTENDE	COMPLETED		18K ORIGIN
	_ őthér zélátívés in hóusehold	NUMBER		Married Armed Forces	NUMBER	Vet. Status)	EHC	COMPLETE	1. White	-
O 1	Reference Person with.	:	1 1	spouse present		Vietnam Era		Yes	2. Black	
1	NO other relatives in household 🧲					Korean War		Nö	1	1 : 1
	Husband	•	1 3	Married - spouse absent (Exclude separated)		World War !!	1		3. Amer. Indian,	1 1 2
	Own child	•				World War I		1	Aleut.Eskimo	
-5	Parent			Widowed		Other Service		.	4. Asian or	ا د ا
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.6	Other rel, of Ref. Person		1 : :	Separated		Female	None		5 Other	
1::	Non-rel, of Ref. Person WITH OWN relatives in household			Never married			,	1		ان
_!	Non-ret, of Ref. Person with	None	1	Never married	None	i	İ	İ	1	
	NO OWN relatives in household		l							1.
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	This person is	29. INT	ERVIEWER CH	ECK ITEM	33 ls nv	ow attending or enrolled as a fu	uttainse 35	INTERVIEWER	CHECK ITEM	
1	16-24 years of age (2 (Ask 26A)	11 .		ILON TEM		t in a vocational or occupations			ems 31—34 for this pers	nn?
	All others ' (End Questions)	-	his person is:					Self)	
26A. (If	'School' In 19, Verify) Is attending or	7	14 or 15 year	s old (End questions)	Yes	No .			(FIII 36)	İ
MATE OF THE PERSON NAMED IN	olled in a high achool, college, or university: ork "Yes" if currently on holiday or seasonal	·	16-24 year	rs old (FIII 30)				Other ·	1	
1490	etion. Merk "No" for summer vacation).	[]	25+ year	s old (Skip to 31)	1	would like to ask some question		INTERCOPORT	ALLEAN INCH	
) v	les () (Verify)-7 No 😏 (End Question) h		, , ,		Pation in adult education activity of examples on		INTERVIEWER	CHECK ITEM	
1	ang in a significant and a significant and a significant and a significant and a significant and a significant	30. INT	RVIEWER CH	ECK ITEM	1	fing <u>full-time</u> school attendance		a, "No" marke		
	Cotlege or Univ. (Ask 268)		a			2 months (that is, since May 1		all parts of	34a-1 (End q	questions)
		_ ''Ye	s" is marked in	26A (Skip to 34)		. (Ask and mark each category)		b !!!		
	enrolled in school as a full-time pert-time student?	7	"No" or NA in	26A (Skip to 33)	a. Taken	any adult or continuing educat	tion	b. "Yes" or "C	any part of	
۵,						credit courses or educational ac		34a-f		7 below and
	Part time () END QUESTIONS			nrolled in a high school; college	Yes	No D	Ř ■			-680 after
		or ur	níversity?					-	the in	terview)
		4	Yes (V	repify) No (Skip to 33)		any courses for credit as a part		INTERVIEWER	CUECK ITEM	
	NDER: BE SURE TO ASK THE LABOR	1	į.		in high	school, college, vocational, or			sity marked In 26A or 3	117
	BERS 14+ YRS, OLD BEFORE ASKING		High school	S 1	Yes	No DI	K			'''
	SUPPLEMENT QUESTIONS.		College or	(Ask 32)				Yes	(Ask Item 38)	ŀ
		┪	university	,		a course by correspondence, te		No 1	(FIII CPS-680 after Interv	Hew)
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				nool as a full-time or part-time	Yes	•	[NO		y be filled from knowled	
		stude			1 183	No Di			Ø	
			Full time	(Skip to 34)	1 7 Table	my courses or educational activ		Does currentl attending college	y live away from home	while
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						nitý group?	-		CPS-680 for contacting s	student
					Yes	No DE	.		at college residence)	
					1 65	NO DE	`	No (FIII CPS-680 after Inter	view)
					e Takan s	any instruction for adults who !	have not			
						iny instruction for addits who t	1 15.1		PERSON 14+ YEARS	
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						luding self education)				l
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FORM CPS-681

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

FLASHCARD

EXAMPLES OF COURSES AND ACTIVITIES

SURVEY OF ADULT EDUCATION

Adult education, for the purposes of this survey, includes all courses and other organized educational activities, taken by persons 16 years of age and over other than courses taken as a full-time¹ student in a program leading toward a high school diploma or a college degree or as a full-time¹ student in a vocational or occupational program.

_SOME EXAMPLES OF COURSES OR ORGANIZED INSTRUCTION TO BE REPORTED IN THIS SURVEY ARE SHOWN BELOW. INCLUDE COURSES THAT WERE STARTED BUT DROPPED:

Automobile mechanics

Bible study

Biology

Bridge

Child care

Driver education

Foreign languages

Health care

How to stop smoking

Mathematics
Music lessons

Needlework

Photography

Psychology

Reading or writing skills

Real estate

Tennis lessons

Typing

To Be Reported

- 1. All adult or continuing education and noncredit courses or activities:
- Courses taken for credit as a part-time² student in a high school, college, vocational, or other school.
- Courses given by correspondence, television, radio, newspaper, tutor, or private instructor.
- Courses or educational activities given by an employer, a labor organization, a neighborhood center, a church, or other community group.
- 5. Basic instruction for adults who have never attended school or who have interrupted their formal schooling at the elementary or secondary levels:

Not To Be Reported

- Courses taken as a <u>full-time</u>⁷ student in a program leading toward completion of elementary, junior, or high school (including a work study program), or toward an academic degree (such as, an Associate of Arts, Bachelor of Arts, Master of Science, or Doctor of Philosophy).
- Courses taken as a full-time⁷ student in a vocational or occupational program.
- 3. Courses or educational activities in an apprenticeship or internship program.
- Self-directed learning activities without the guidance of a teacher or sponsoring agency:
- 5. Individual counseling (such as, psychotherapy, marriage counseling, and vocational counseling) or group therapy.
- Religious activities that are primarily for worship.

^{1 &}quot;Full-time" is a full course load, as determined by the State, local school system, or institution. At a collage, university, or technical institute, this is usually 12 or more semester or quarter credit hours. "Full-time" at other types of schools is usually considered to be 15 or more clock hours of instruction per week.

^{2 &}quot;Part-time" attendence at a college, university, or technical institute is usually considered to be less than 12 semester or quarter credit hours. "Part-time" at other types of schools is usually considered to be less than 15 clock hours of instruction per week.

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Page 2

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5. Who provided the instruction for the course?				i
	COURSE NUMBER 1	COURSE NUMBER 2	COURSE NUMBER 3	COURSE NUMBER 4
Elementary school or high school	1. 0	1. C	1. 0	~ 1 C
2. 2-year community or jr. college or technical institute		2 0	2 0	2. 0
3. 4-year college or university	3 0	3 5	3 0	l si c
4. Vocational, trade, business, hospital, or flight school	. 4. 0	4. 0	4 0	4 č
5. Other school	5.0	5. c	5. C	5 C
6. Tutor or private instructor.	1	6 C	60	= -
7. Business or industry.		7. C	7.0	6 C
B. Labor organization or professional association	i	B C	8 0	ļ ·
9. Federal, State, county or local government agency	1 • 0		1 8 0	B C
(a.a. military reserve unit consultural extension recreation department).	9 0	9. 0	9 C	9 C
10. Private community organization (e.g. church, synapopus, YMCA, Red Cross, neighborhood association)	. 10 0	10 c	1 10 C	10 6
11. Other (Specify).	11. C	11 0	ii o	11 c
- 12-Don't know , , , ,	. 12 C	12 C	12 C	12 0
Was the instruction for this course provided by your employer for employees		 		† <u> </u>
in your organization?	Yas C No O	Yes O No O	Yes 1 No C	Yes C No C
Who paid for this course? (Mark all that apply)				
1. Self or family.	i. ö	i. c	1 ; ;;	1::
2. Government	" "	1.0	1. 0	1. C
(Federal, State, county, local government, Including public schools)	2 G	2 0	2.0	2 2
3. Business or industry	3 . 0	3.0	3 C	3 0
	<u> </u>			
Private organization. (e.g. church, lebor organization,	_	1	-	
professional association, YMCA, or Red Cross 1	4 , ⊙	4. 0	4 0	4. 0
5. Other (Specify).	5. Ō	50	5 0	5 0
6, Don't know.	6 . O	6 0		
	6 . U		6 0	6 0
INTERVIEWER CHECK ITEM				†
1. "Self or family" is the only source of payment marked in 17	1. C (Skip to 21)	1: 5 (SAIp 10 21)	, C (Skip to 21)	1. C (Ship to 21)
2. All other cases.	2. O (Ash 19)	2. C (Aut 19)	2. O (Aut 19)	2. O (Ash 19)
Nas your employer one of the sources of payment mentioned?				
	Yas O No Ō	Y O NO C	Ya Ö No C	Yes O No C
NTERVIEWER CHECK ITEM		- -		
				1
1,"Self or family" is one of the sources of payment marked in 17	1. Ö (AJÁ 21)	1. C (Ask 21)	1. C (Ash 21)	1. O (Ash 21)
	i			
Z. All other trees.	2. © (End oversions for this	2. O TENd investions for this	2. C (End guestions for this	2. C (End guestions for this
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Page 3

